



US005969283A

# United States Patent [19]

[11] Patent Number: **5,969,283**

Looney et al.

[45] Date of Patent: **Oct. 19, 1999**

- [54] **MUSIC ORGANIZER AND ENTERTAINMENT CENTER**
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- [73] Assignee: **Looney Productions, LLC**, Lexington, Mass.
- [21] Appl. No.: **09/098,843**
- [22] Filed: **Jun. 17, 1998**
- [51] Int. Cl.<sup>6</sup> ..... **G09B 5/00**; G09B 15/04; H04L 9/00; G10H 1/46
- [52] U.S. Cl. .... **84/609**; 84/639; 84/478; 84/633; 380/19; 380/25; 380/49; 380/53; 434/307 A
- [58] **Field of Search** ..... 84/601, 602, 609-614, 84/633-640, 477 R, 478, DIG. 6; 434/307 R, 307 A; 380/19-21, 23-25, 30, 49, 50, 53

|           |         |                  |             |
|-----------|---------|------------------|-------------|
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Primary Examiner—Stanley J. Witkowski  
Attorney, Agent, or Firm—Cesari and McKenna LLP

### [57] ABSTRACT

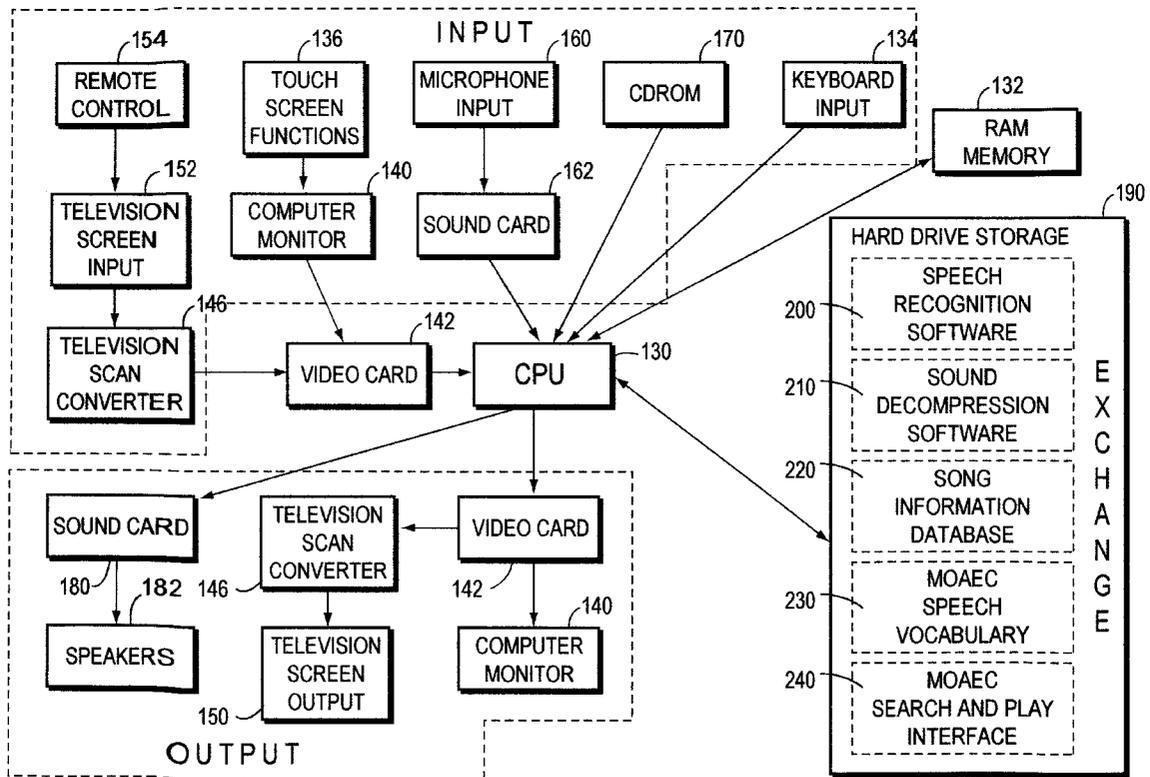
A music organizer and entertainment center provides a center having a microprocessor, sound card functions and high-volume data storage and retrieval units for playing back music according to a variety of predetermined categories. Music can be played back in random form or can be played back according to a particular pre-selected order. The categories are provided by service provider who delivers selected titles and/or songs to the end user. The songs are typically loaded using a custom CD-ROM provided from the service provider. The music is provided in- data-compressed form and is decompressed and processed through a sound card during playback. The categories can include a variety of parameters such as title, artists, date, speed, dance characteristics, subjective energy level and music style, such as easy-listening, upbeat, etc.

### [56] References Cited

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**18 Claims, 27 Drawing Sheets**



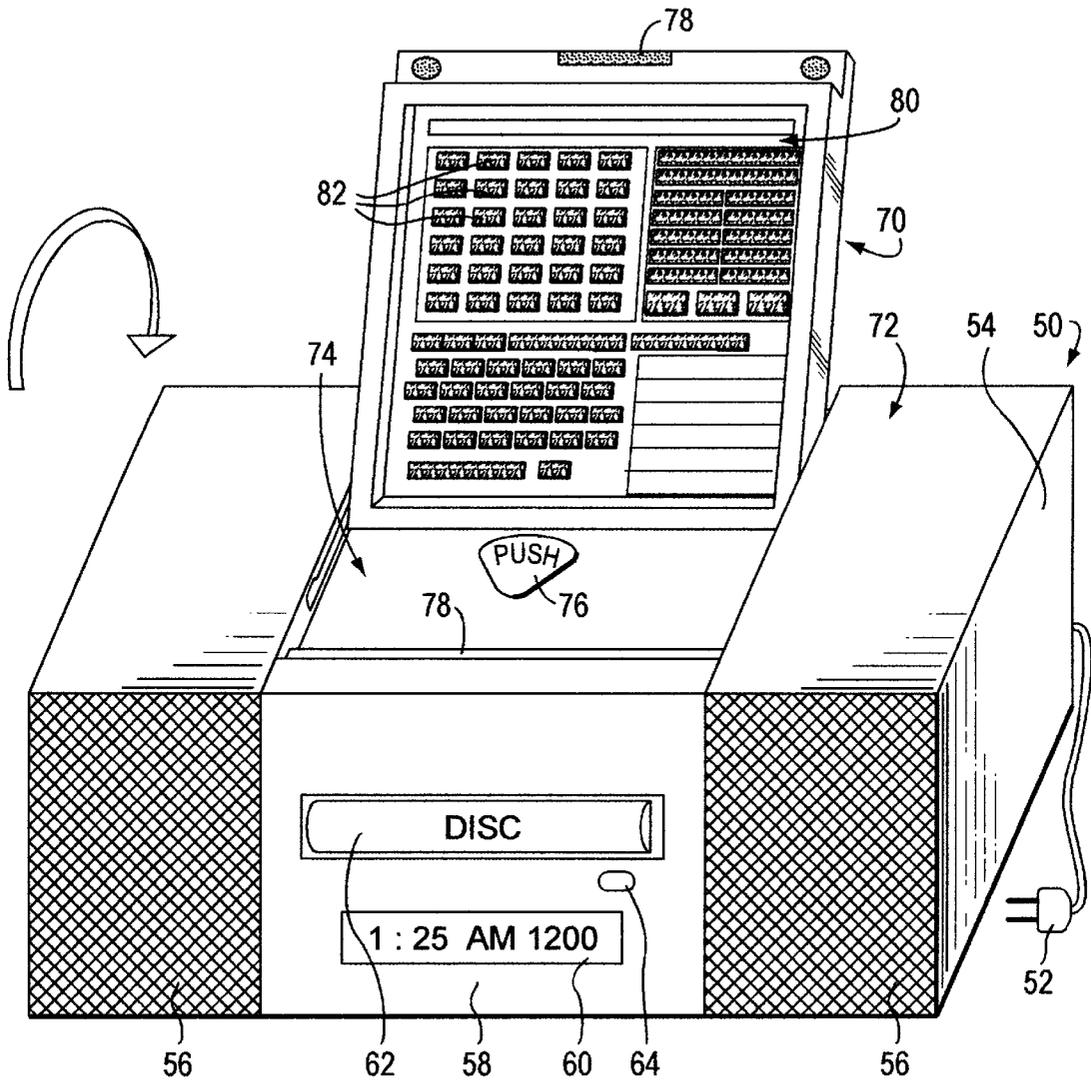


FIG. 1



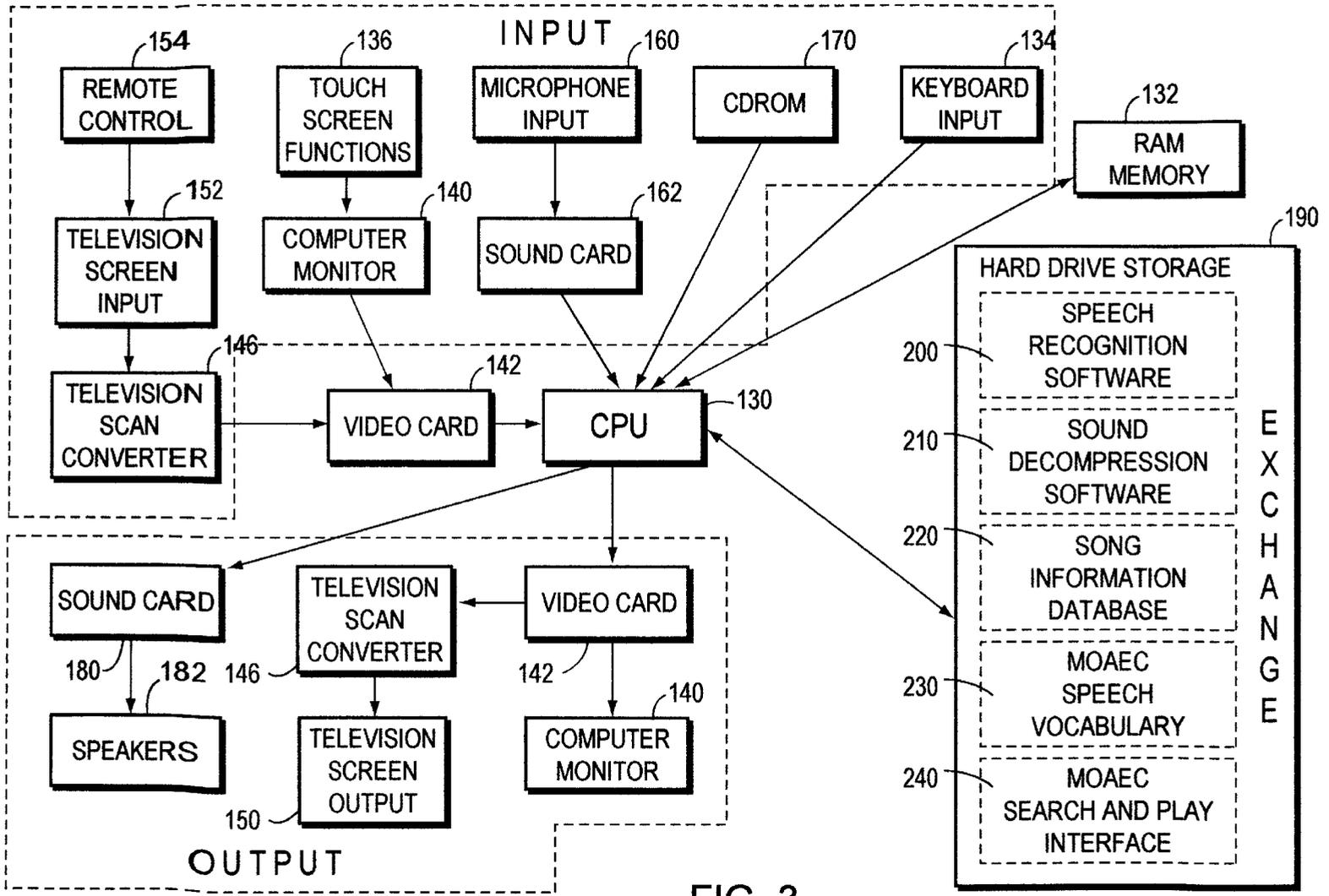


FIG. 3

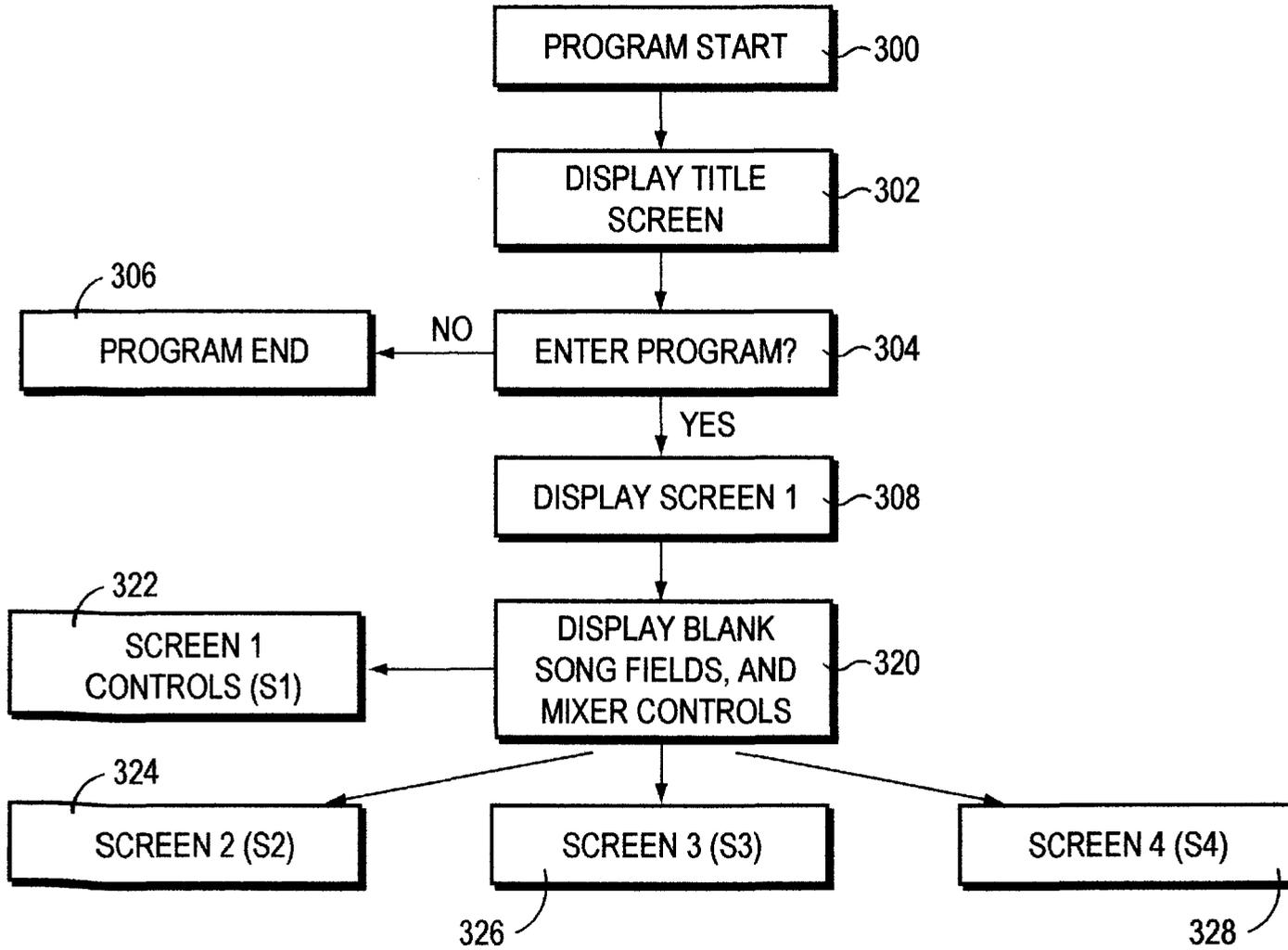


FIG. 4

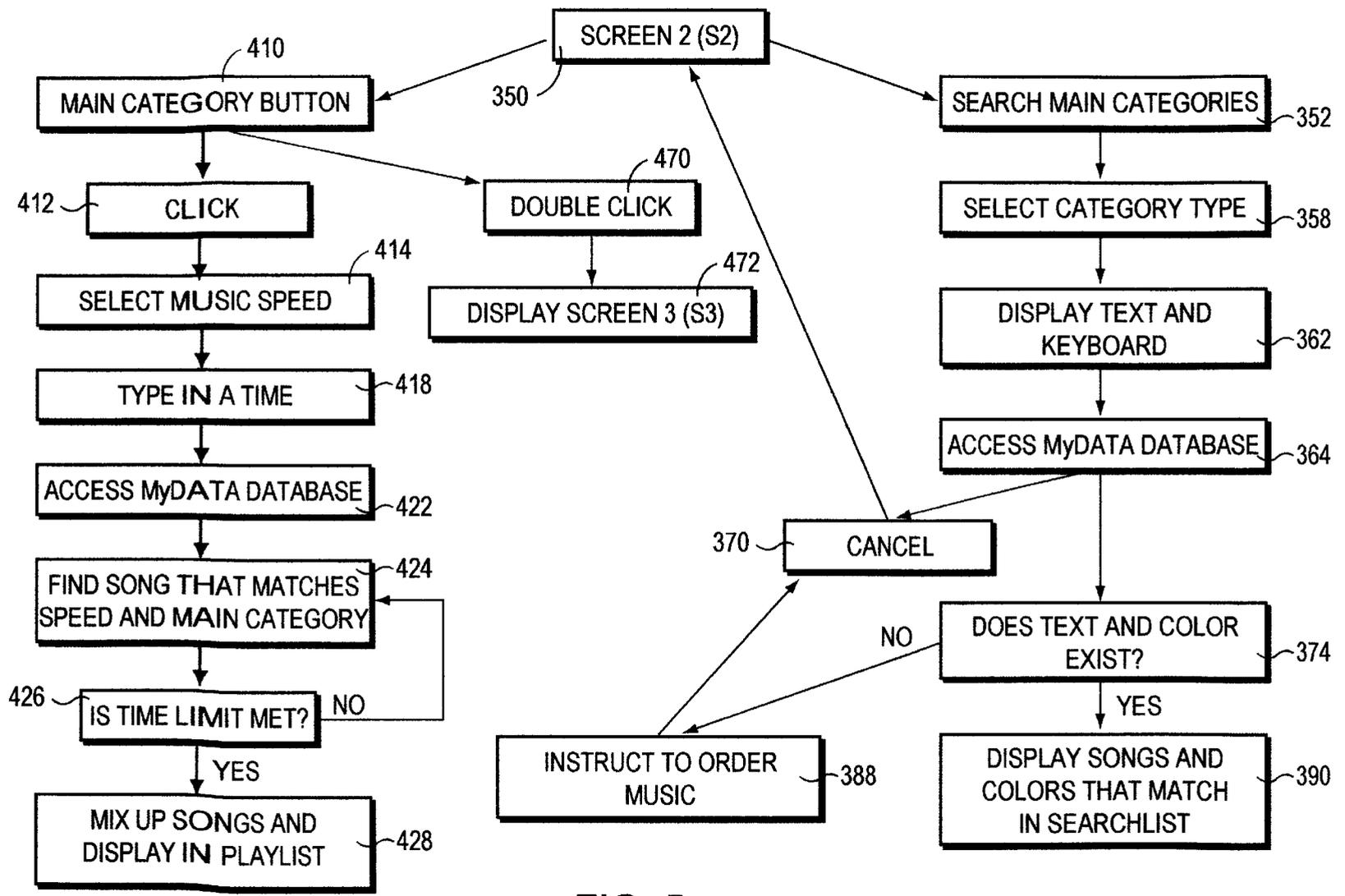


FIG. 5

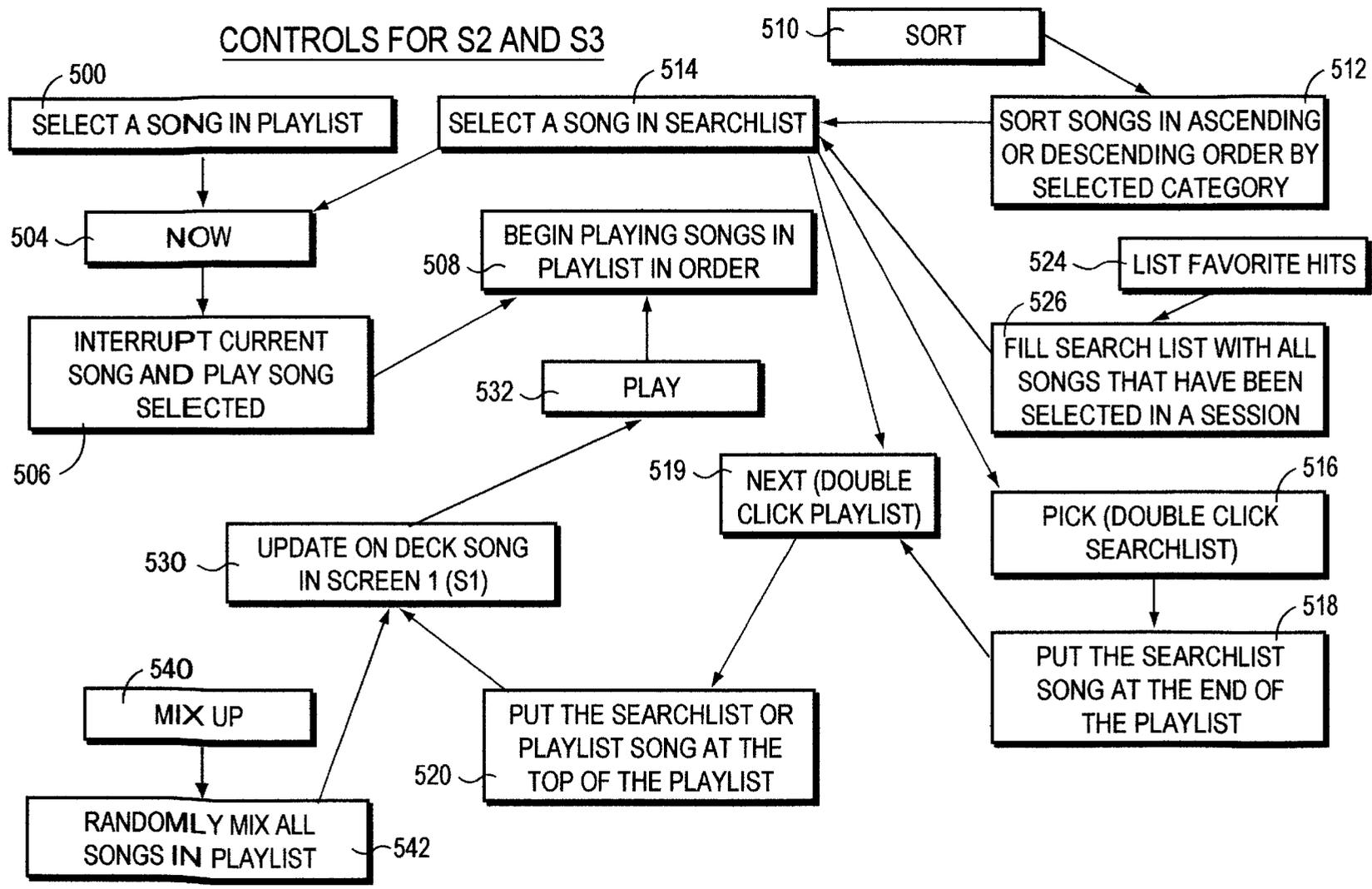


FIG. 6

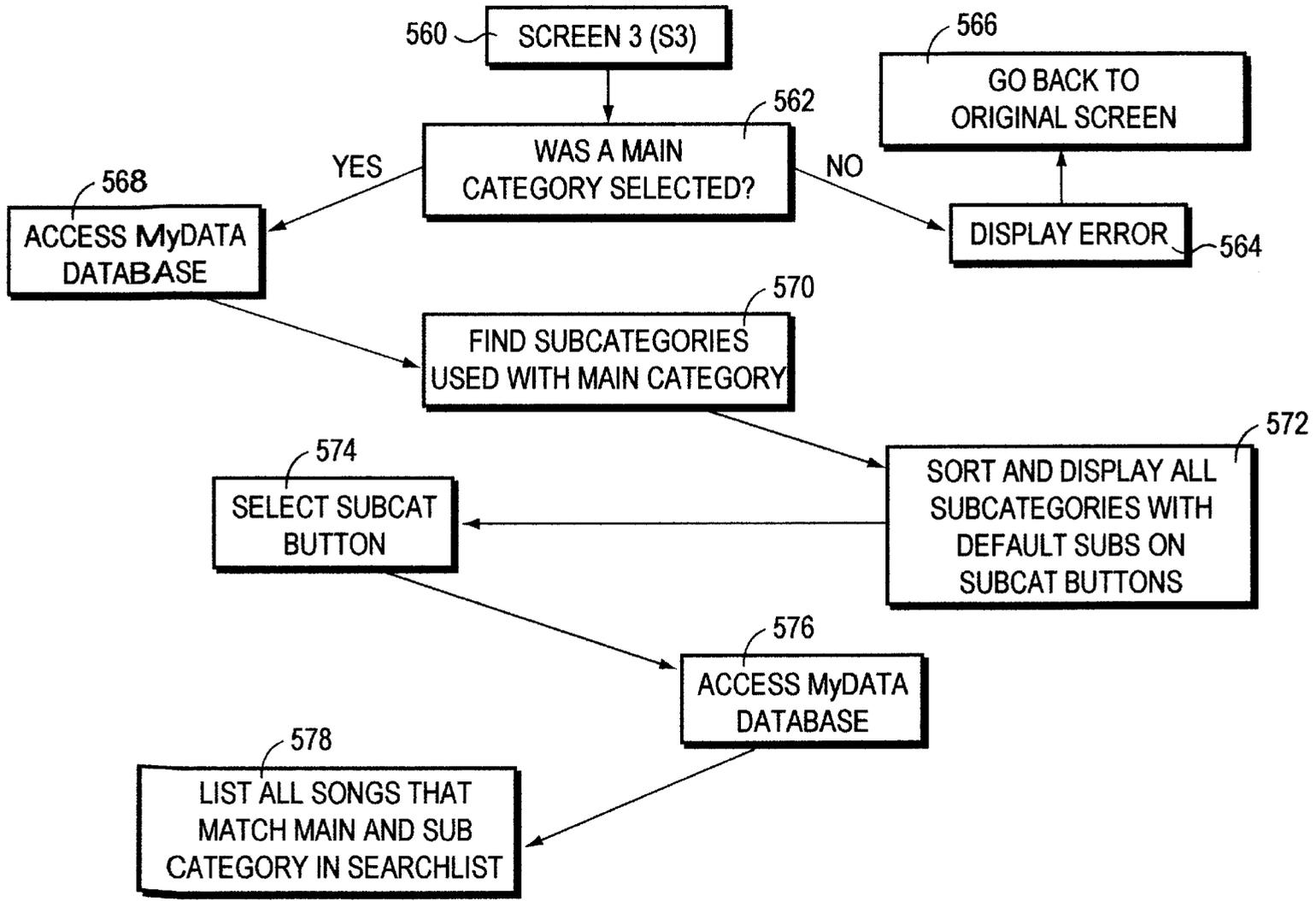


FIG. 7

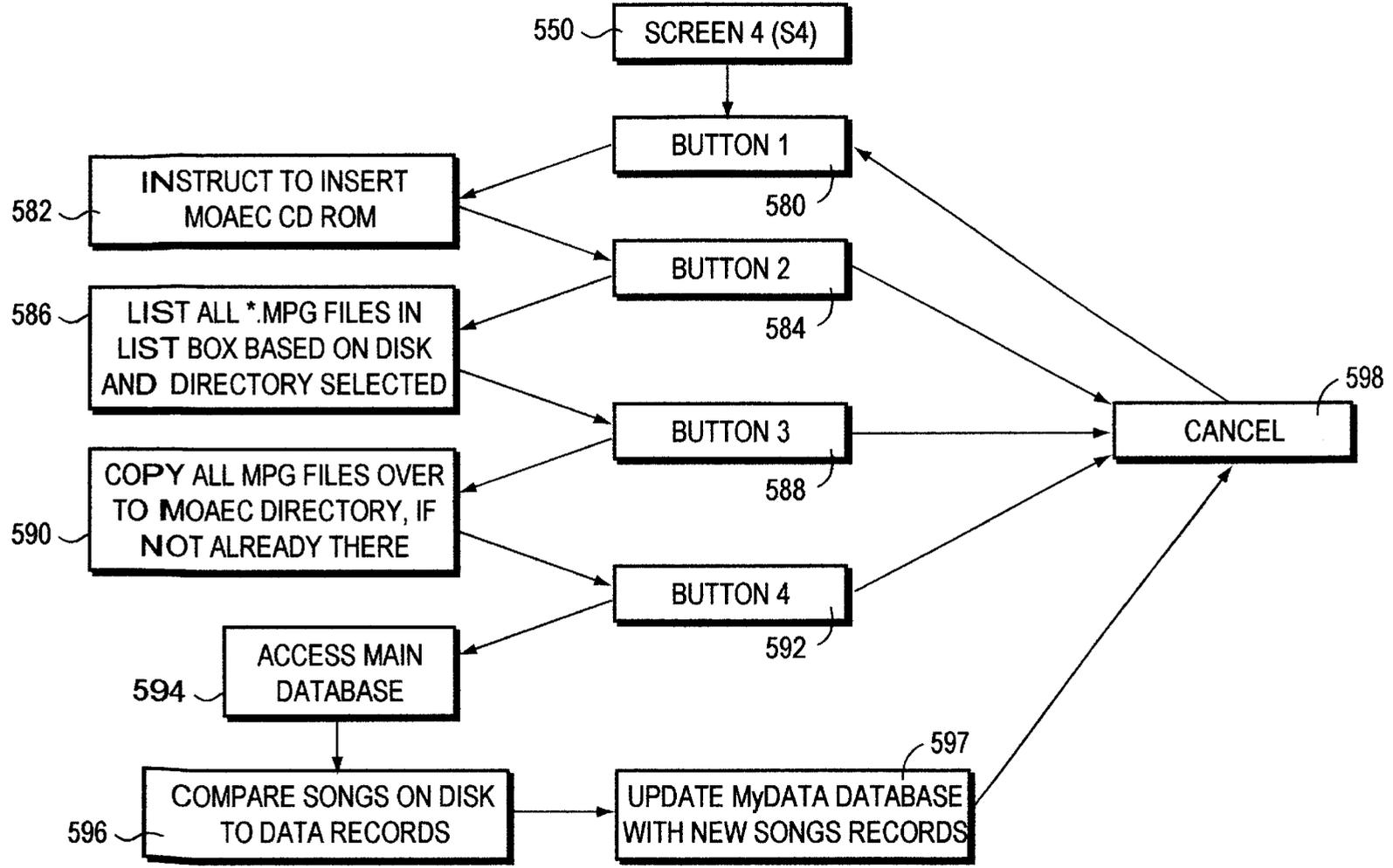


FIG. 8

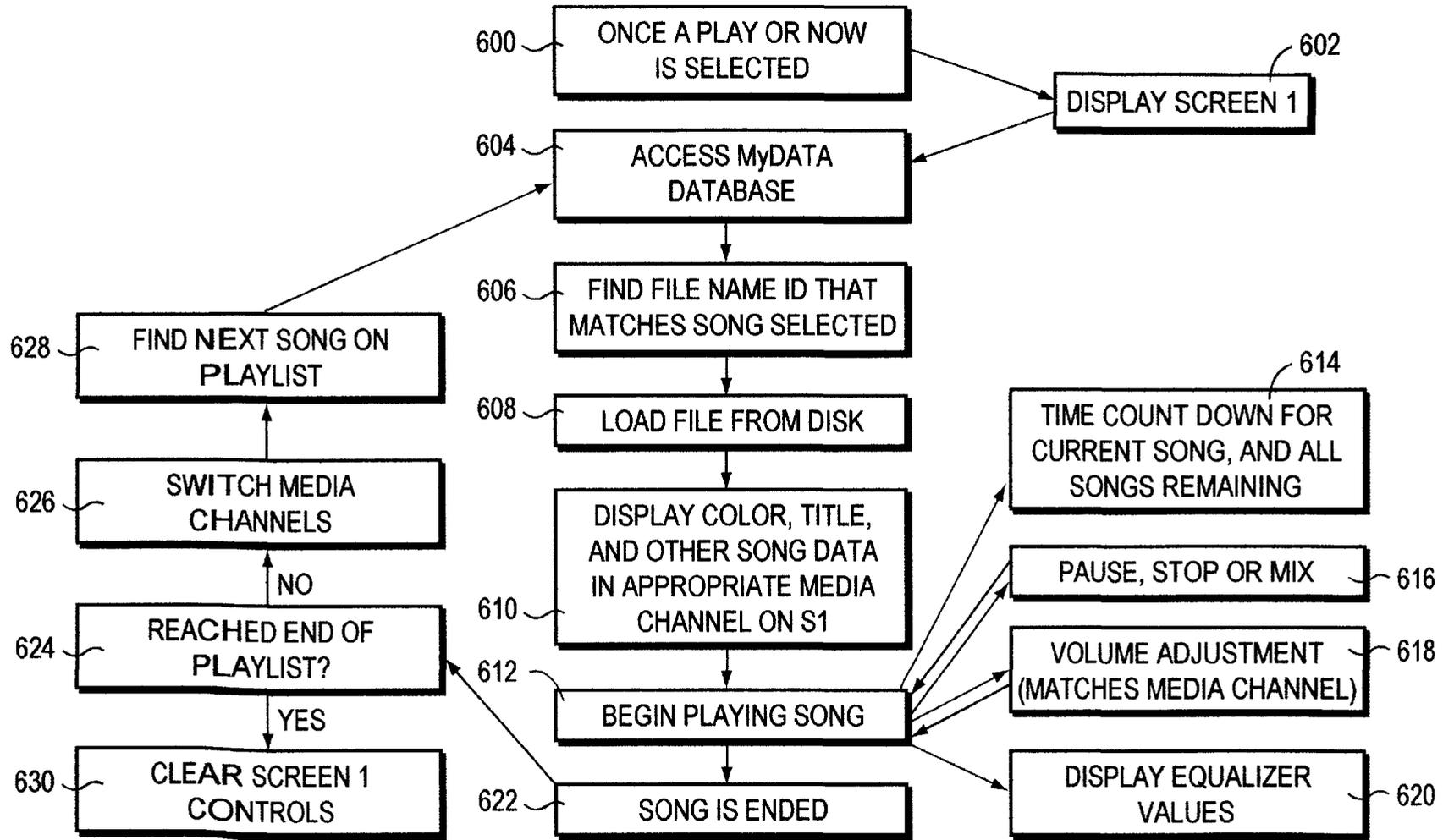


FIG. 9

### SAVING AND LOADING PLAYLIST

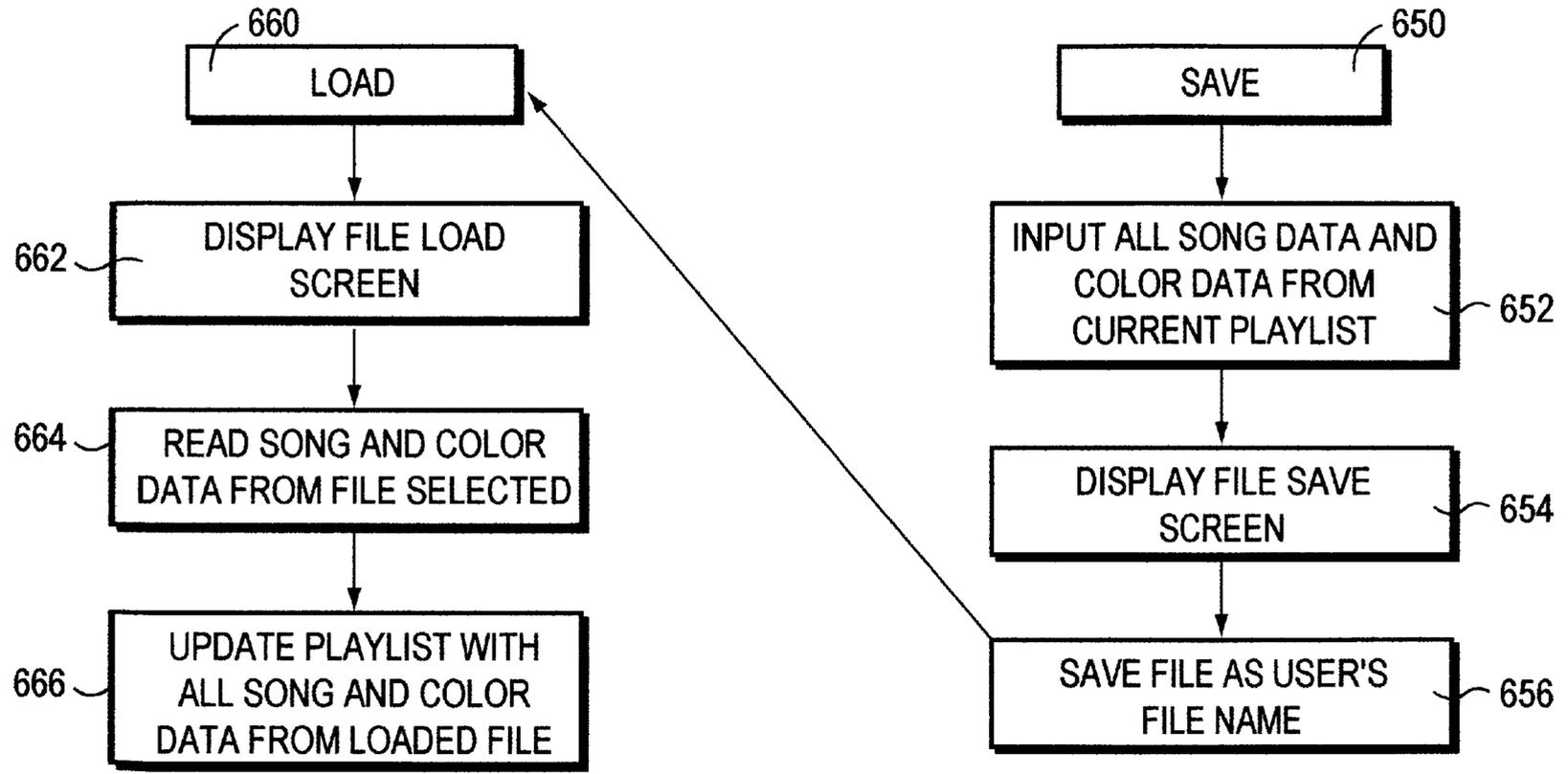


FIG. 10

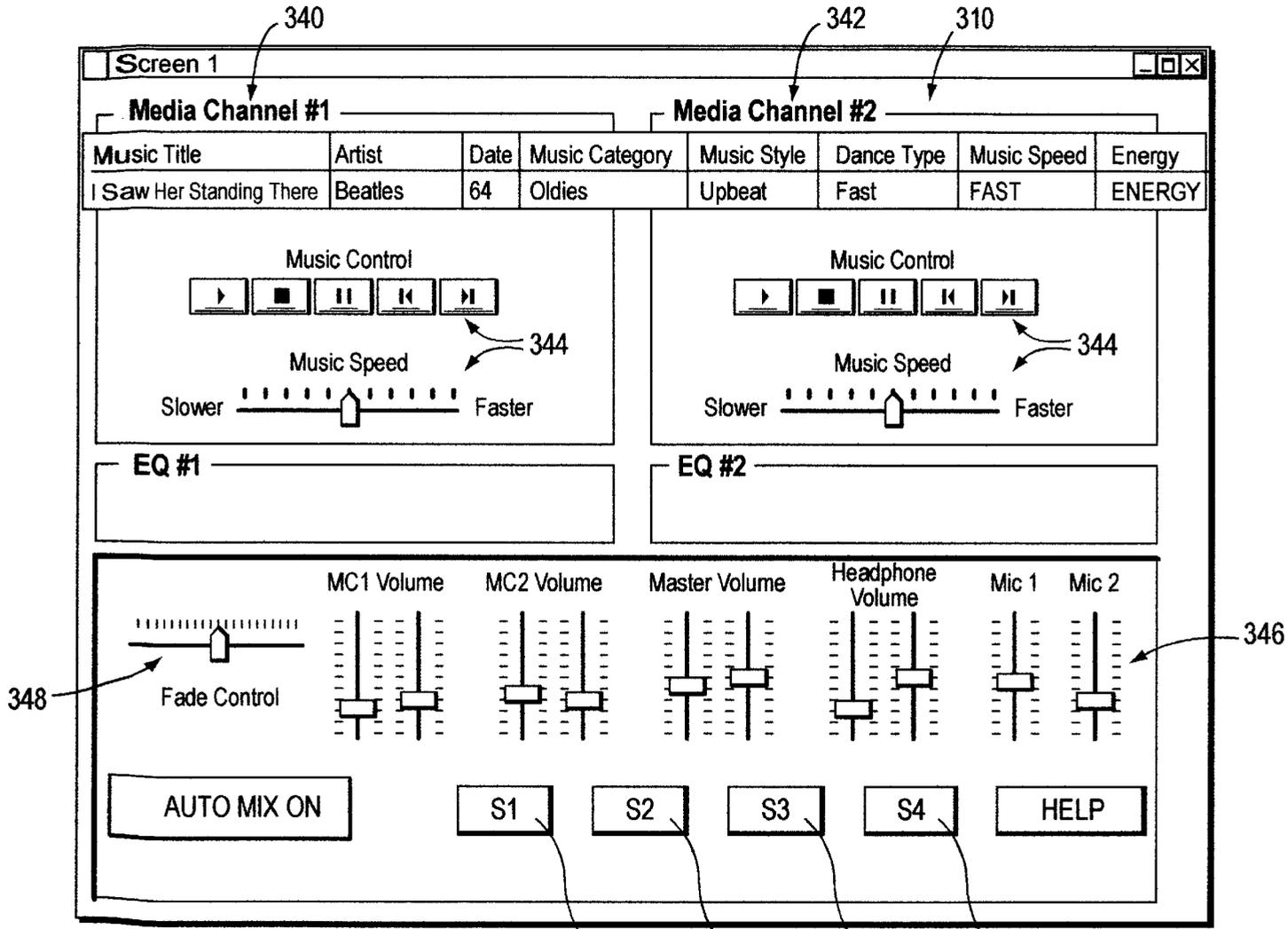


FIG. 11

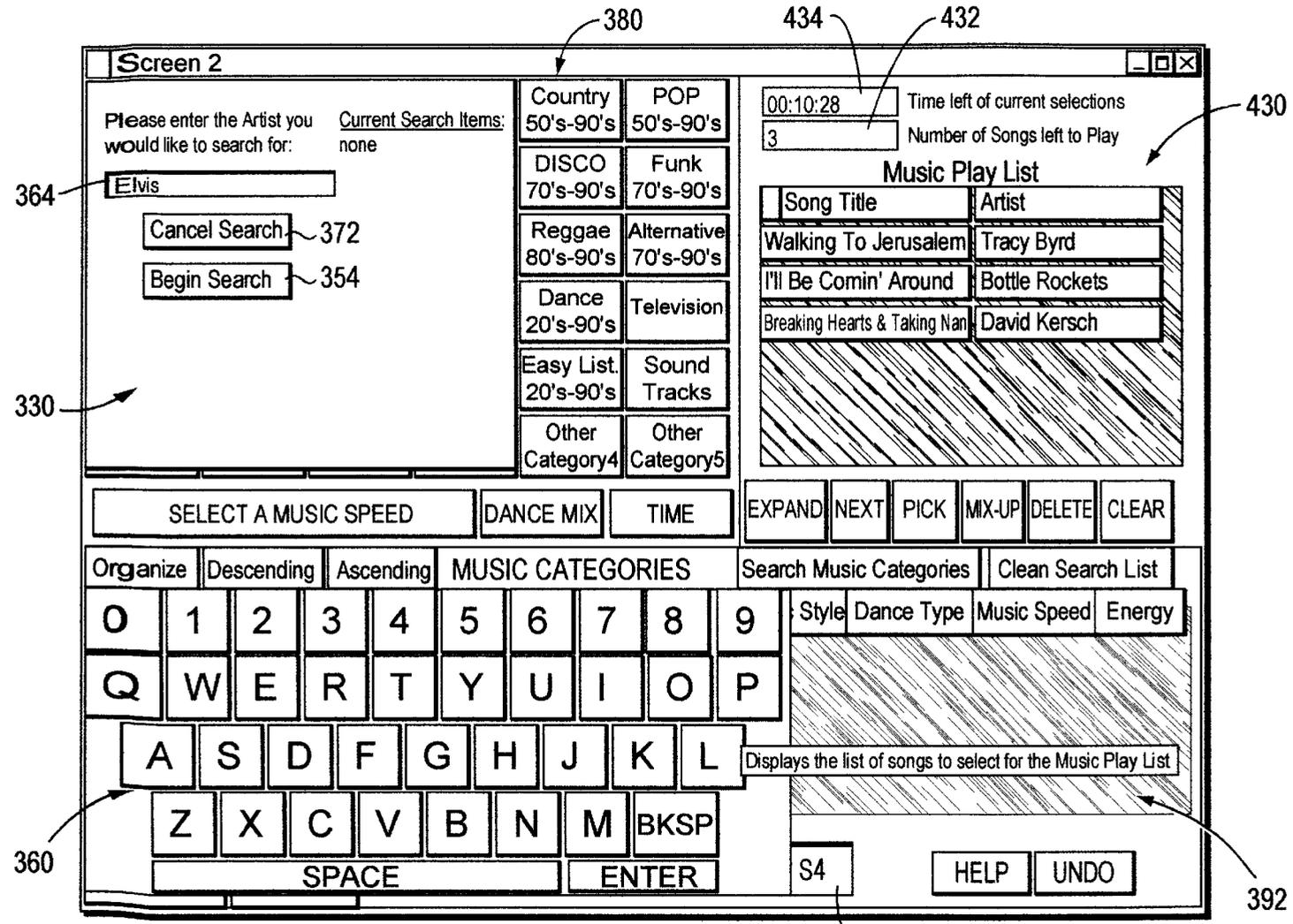


FIG. 12

318

364

330

360

380

434

432

430

392

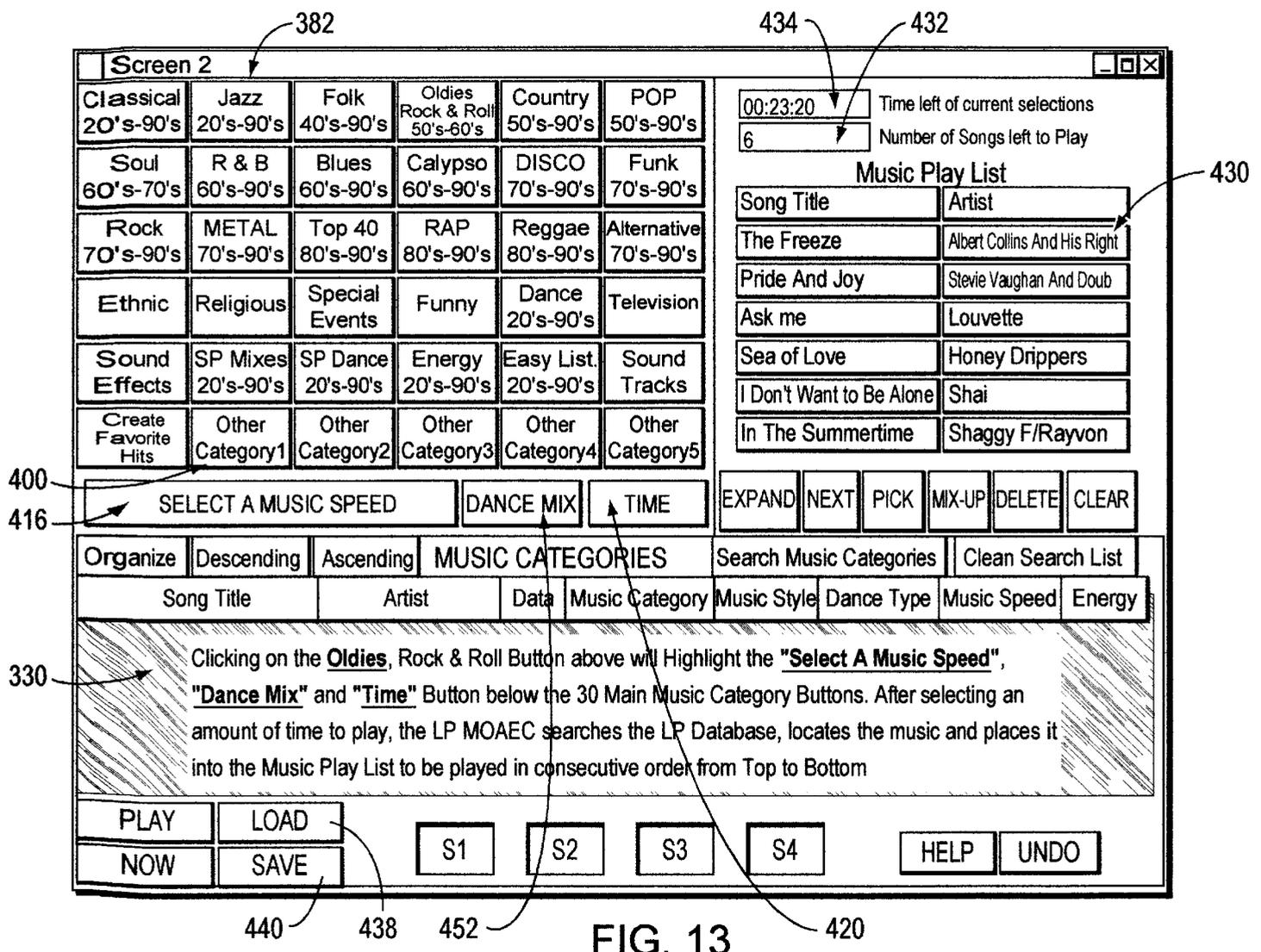


FIG. 13

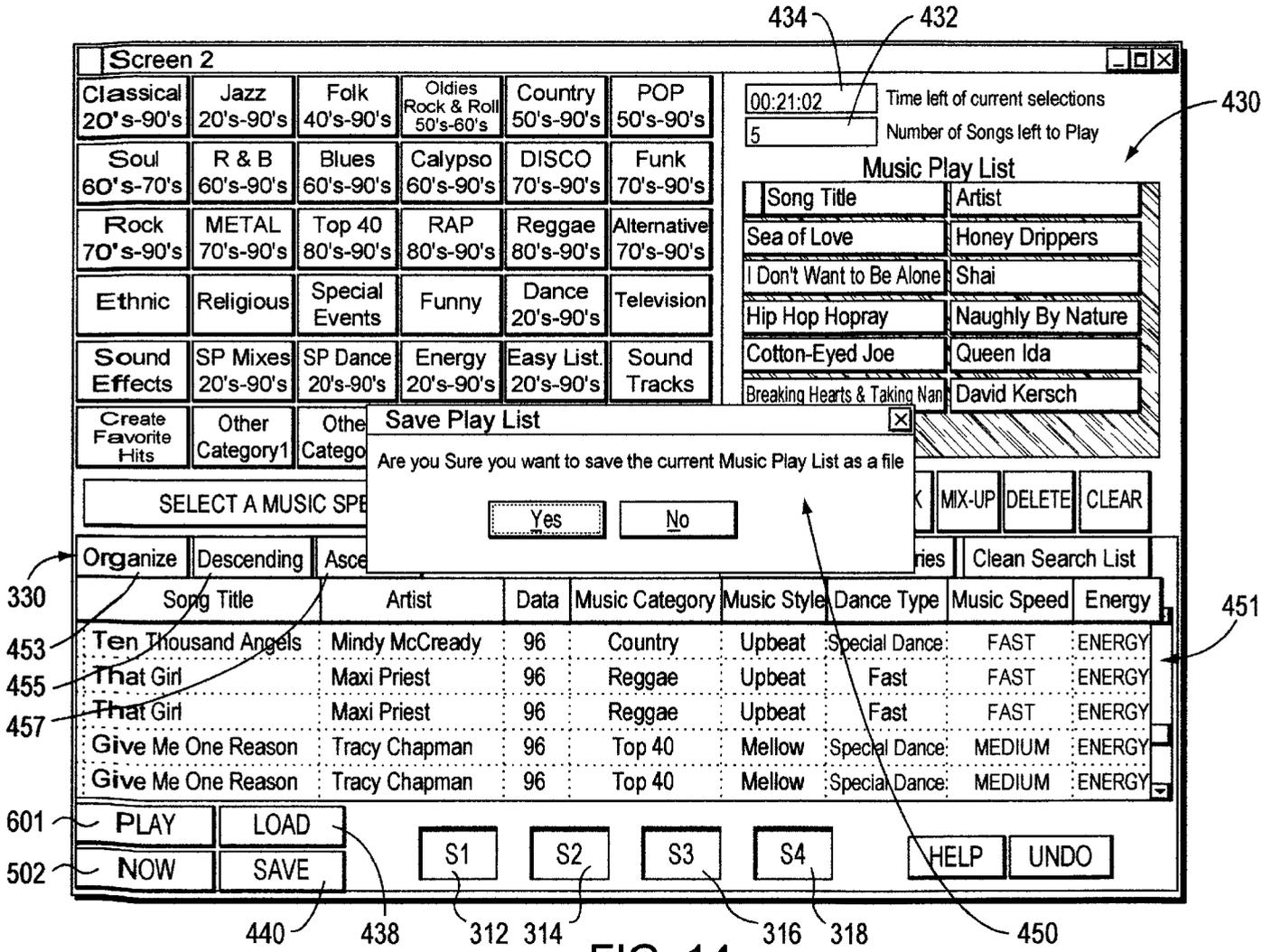


FIG. 14

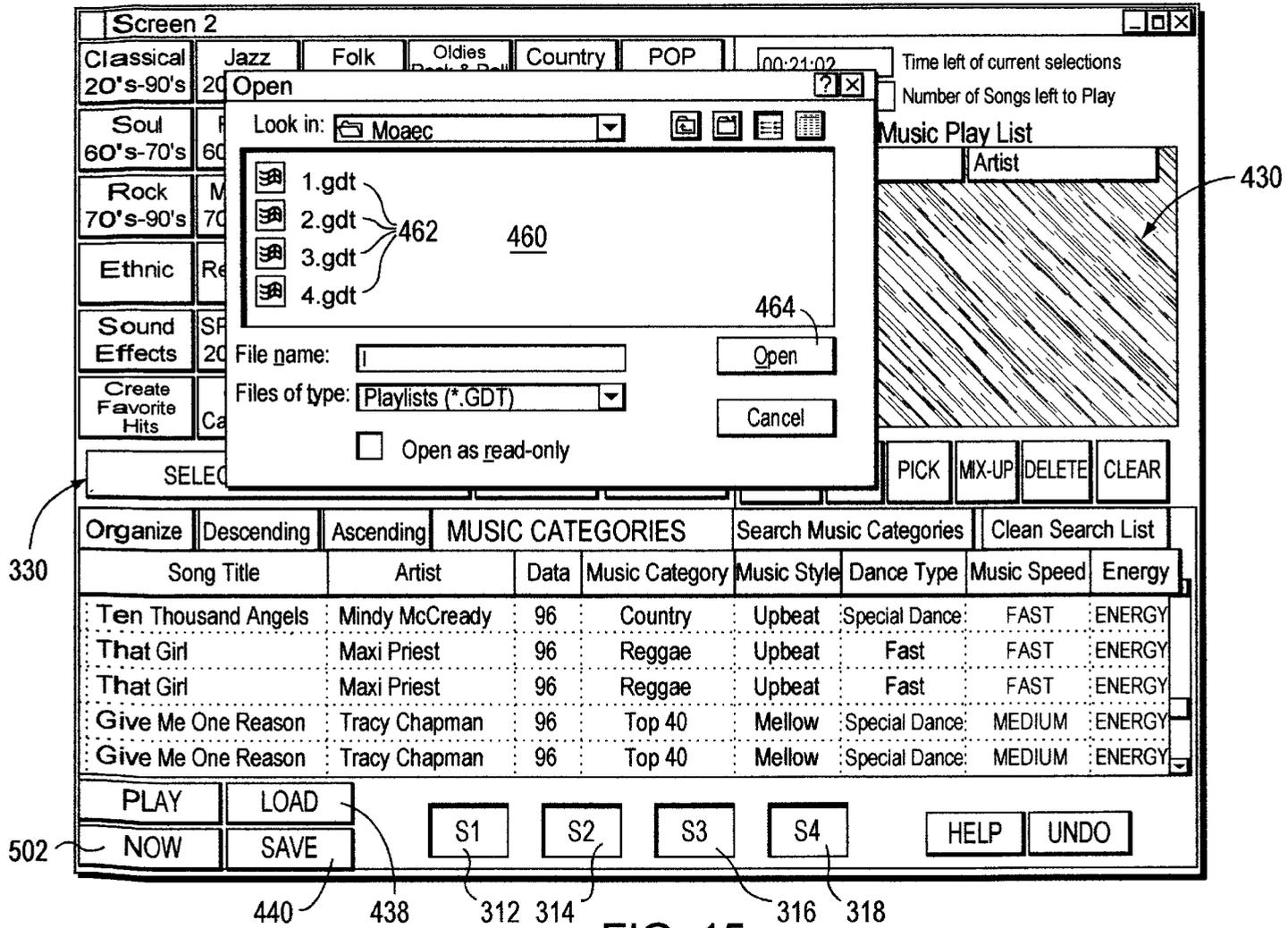


FIG. 15

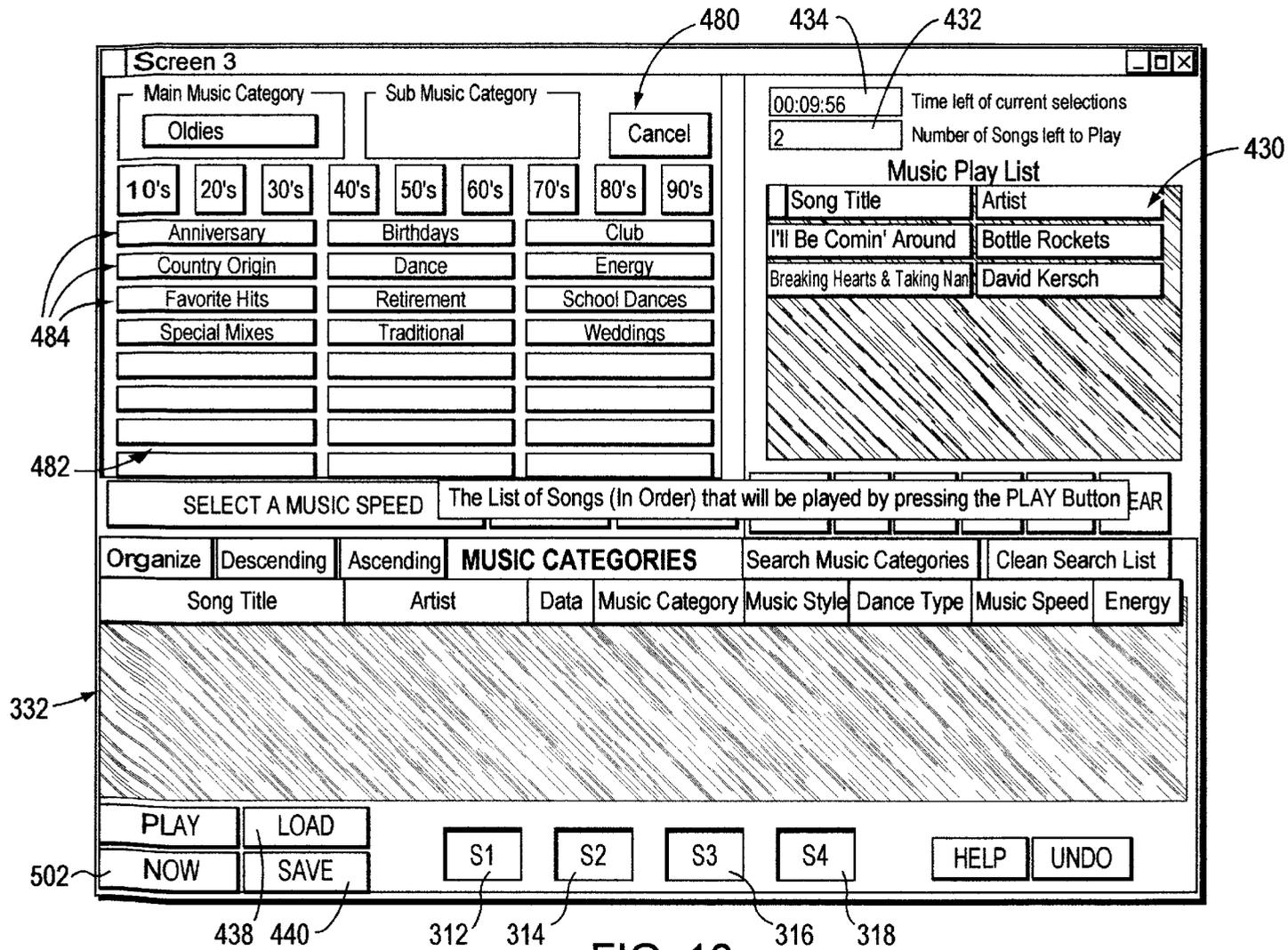


FIG. 16

552 554 556 558 560 562 564 566 568 570 572

LP Complete Music Guide: Table

| Test | ID      | DiskN | SongNum                   | Title                 | Artist | Mstyle | Dtype | Spe | Time | En | T |
|------|---------|-------|---------------------------|-----------------------|--------|--------|-------|-----|------|----|---|
| OK   | 2:RH34  | 3416  | 1979                      | Smashing Pumpkin      | UP     |        | M     |     | 260  |    | A |
| OK   | 3:RU14  | 10    | 1979 (Vocal Mix)          | Smashing Pumpkin      | UP     |        | M     |     | 310  |    | A |
| OK   | 5:T327  | 11    | A Little Bit Me. A Little | Specials              | UP     |        | M     |     | 211  |    | F |
| OK   | 6:T317  | 11    | Aeroplane                 | Red Hot Chili Peppers | UP     | FAST D | F     |     | 251  |    | A |
| OK   | 11:RH36 | 3607  | Big Me                    | Foo Fighters          | UP     | MELLO  | UP    |     | 133  |    | A |
| OK   | 12:T319 | 13    | Big Me                    | Foo Fighters          | UP     | MELLO  | UP    |     | 133  |    | A |
| OK   | 13:T319 | 10    | Bing Bang Baby            | Stone Temple Pilots   | UP     |        | F     |     | 203  |    | A |
| OK   | 15:T320 | 15    | Bluster                   | Salt                  | UP     |        | M     |     | 194  |    | C |
| OK   | 16:T314 | 16    | Brother                   | Toad The Wet Spro     | MEL    |        | M     |     | 237  |    | A |
| OK   | 17:RH38 | 06    | But Anyway (Studio E      | Blues Traveler        | MEL    |        | M     |     | 179  |    | A |
| OK   | 19:RH36 | 3618  | Champagne Super No        | Oasis                 | MEL    |        | M     |     | 304  |    | A |
| OK   | 20:T317 | 13    | Champagne Super No        | Oasis                 | MEL    |        | M     |     | 301  |    | A |
| OK   | 22:T322 | 04    | Charms (Radio Remix       | Philosopher Kings     | UP     |        | M     |     | 247  |    | A |
| OK   | 23:RH35 | 3508  | Closer to Free            | Bodeans               | UP     | FAST D | F     |     | 191  | EN | A |
| OK   | 24:T322 | 13    | Common People (7 E        | Pulp                  | UP     | FAST D | F     |     | 249  |    | A |
| OK   | 25:RH37 | 3702  | Counting Blue Cars        | Dishwalla             | UP     |        | M     |     | 263  | EN | A |
| OK   | 26:T319 | 15    | Counting Blue Cars (E     | Dishwalla             | UP     |        | M     |     | 263  | EN | A |
| OK   | 28:T325 | 17    | Dangerous Type            | Letters To Cleo       | UP     | FAST D | F     |     | 194  |    | A |
| OK   | 31:T350 | 14    | Don't Speak               | No Doubt              | UP     |        | M     |     | 252  |    | A |
| OK   | 34:RH35 | 3502  | Everything Falls Apart    | Dog's Eye View        | UP     |        | F     |     | 227  | EN | A |
| F/OK | 35:T318 | 17    | Flood                     | Jars Of Clay          | UP     |        | F     |     | 196  |    | A |
| F/OK | 36:RH36 | 3614  | Flood                     | Jars Of Clay          | UP     |        | F     |     | 197  |    | A |
| OK   | 37:RH35 | 3513  | Follow You Down           | Gin Blossoms          | UP     |        | F     |     | 226  | EN | A |
| OK   | 38:T313 | 11    | Follow You Down           | Gin Blossoms          | UP     |        | F     |     | 225  | EN | A |
| OK   | 40:T334 | 11    | Free To Decide            | Cranberries           | MEL    |        | M     |     | 265  | EN | A |
| OK   | 41:RH38 | 03    | Free To Decide            | Cranberries           | MEL    |        | M     |     | 265  | EN | A |
| F/OK | 43:T323 | 18    | Girl Don't Tell Me        | Fuzzy                 | UP     |        | F     |     | 148  |    | A |
| F/OK | 44:T324 | 03    | God Only Knows            | Nylons                | UP     |        | M     |     | 211  | EN | F |

Record 1 of 2285

336

FIG. 17

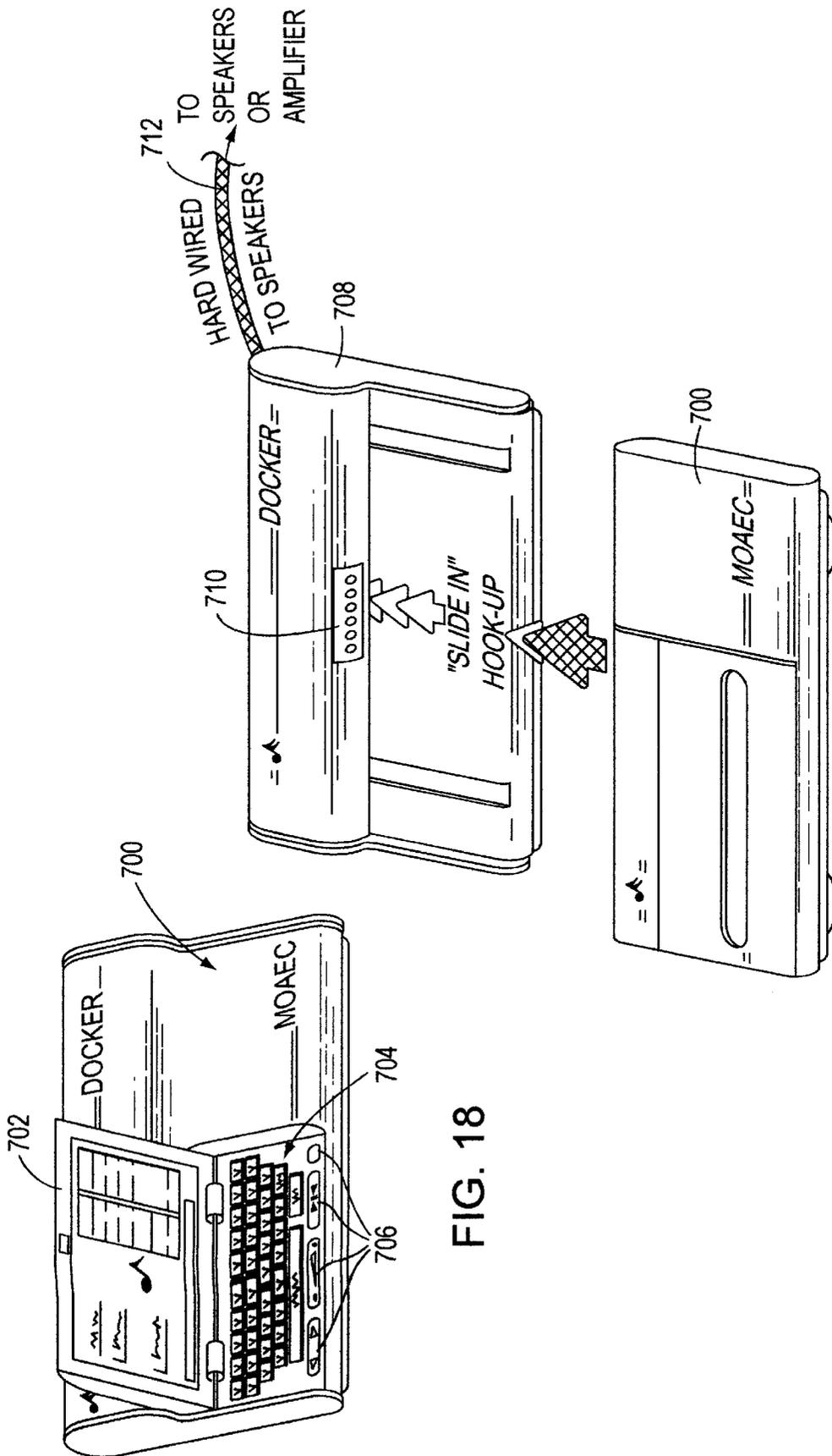


FIG. 18

FIG. 19

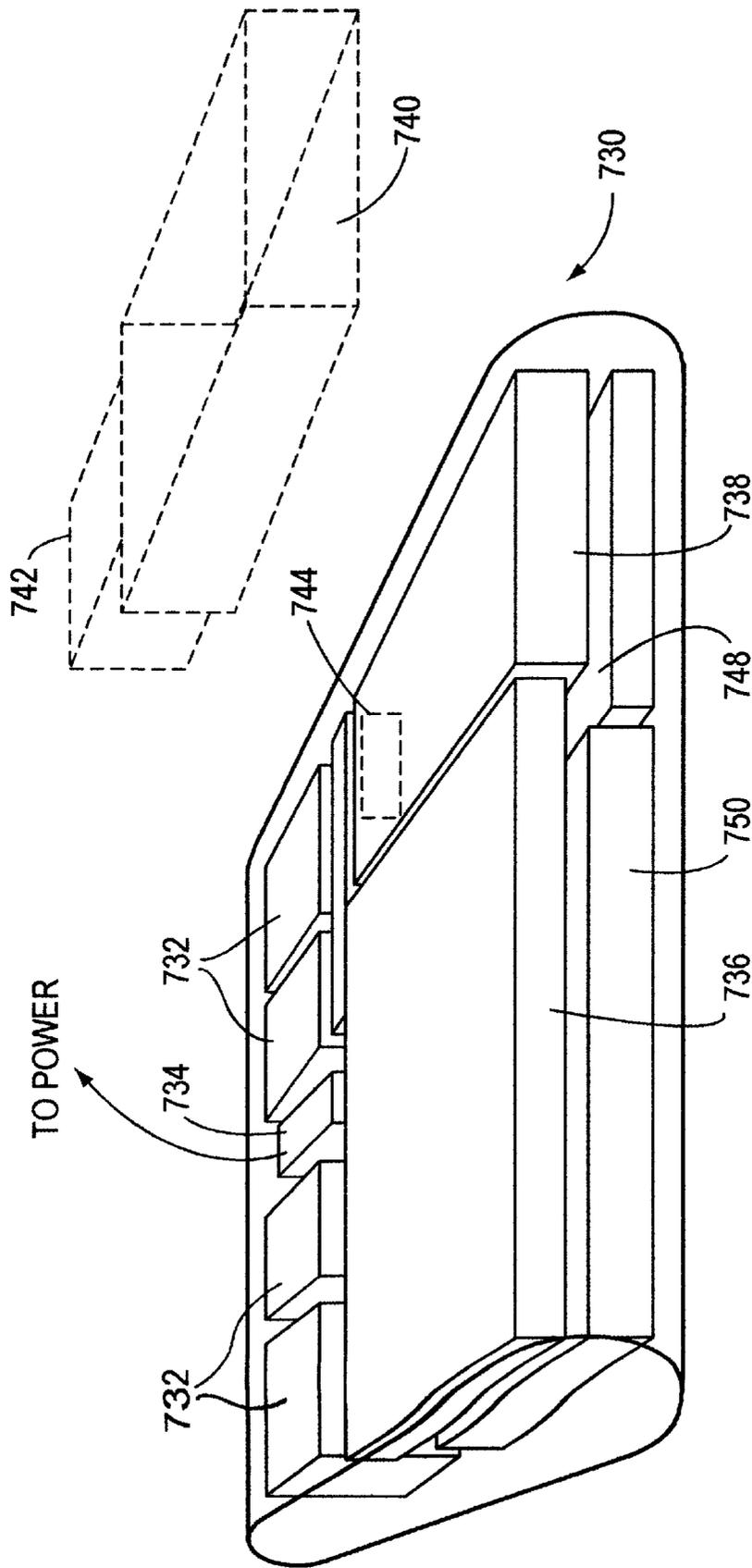
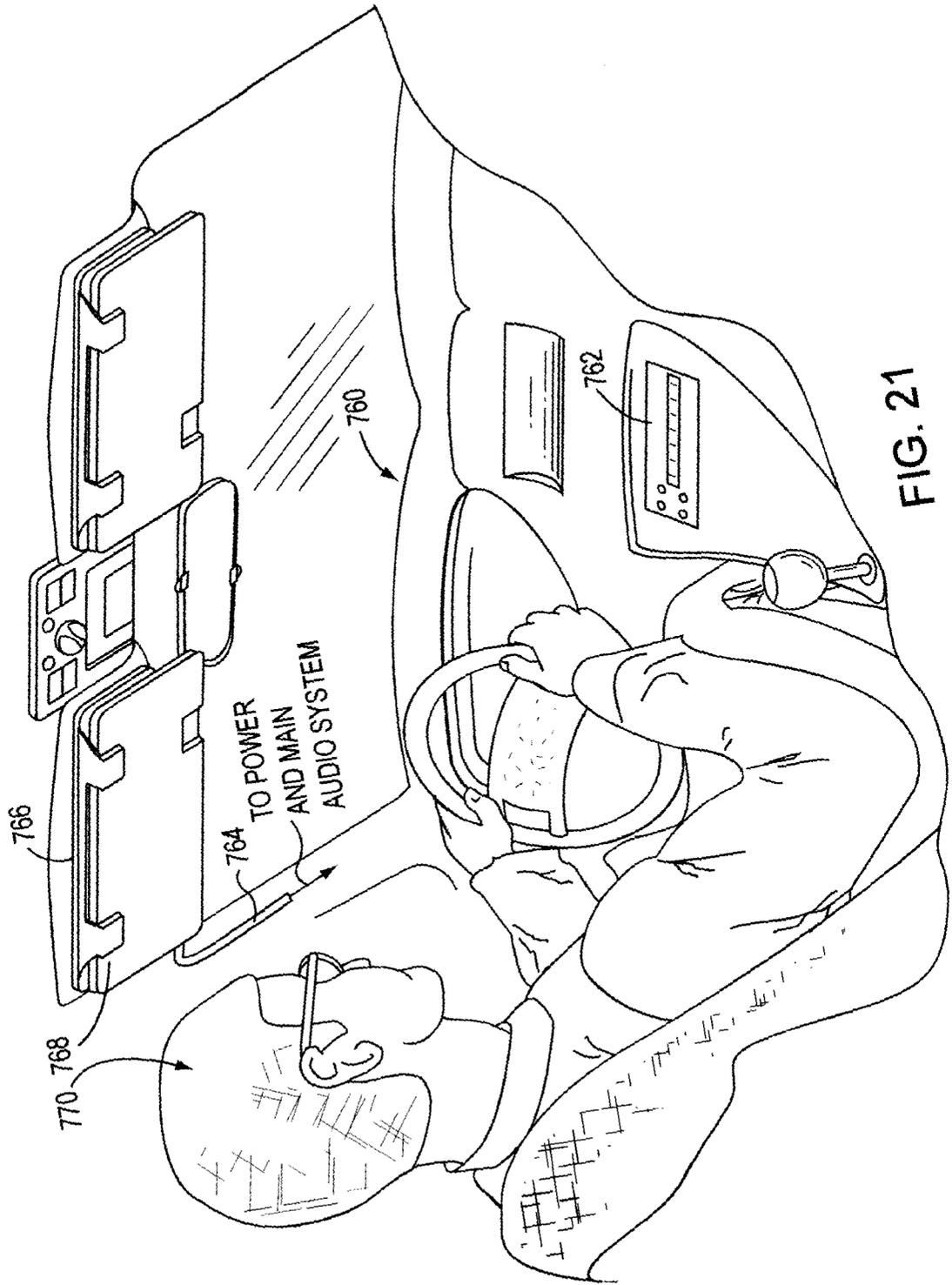


FIG. 20



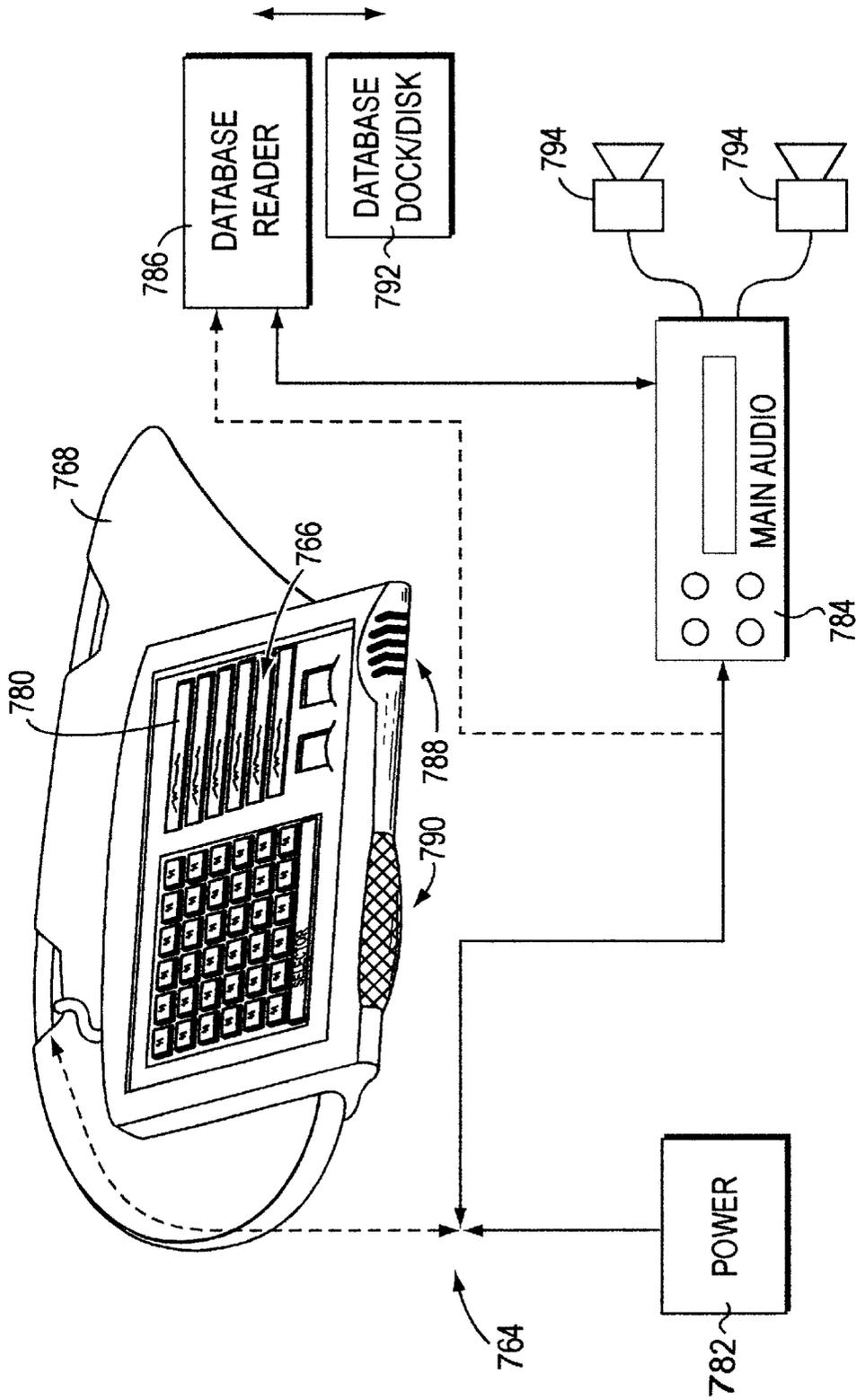


FIG. 22

798

Looney Productions MOAEC 2000

|                            |                       |                       |                                    |                         |                          |
|----------------------------|-----------------------|-----------------------|------------------------------------|-------------------------|--------------------------|
| Classical<br>20's-90's     | Jazz<br>20's-90's     | Folk<br>40's-90's     | Oldies<br>Rock & Roll<br>50's-60's | Country<br>50's-90's    | POP<br>50's-90's         |
| Soul<br>60's-70's          | R & B<br>60's-90's    | Blues<br>60's-90's    | Calypso<br>60's-90's               | DISCO<br>70's-90's      | Funk<br>70's-90's        |
| Rock<br>70's-90's          | METAL<br>70's-90's    | Top 40<br>80's-90's   | RAP<br>80's-90's                   | Reggae<br>80's-90's     | Alternative<br>70's-90's |
| Ethnic                     | Religious             | Special<br>Events     | Funny                              | Dance<br>20's-90's      | Television               |
| Sound<br>Effects           | SP Mixes<br>20's-90's | SP Dance<br>20's-90's | Energy<br>20's-90's                | Easy List.<br>20's-90's | Sound<br>Tracks          |
| Create<br>Favorite<br>Hits | Other<br>Category1    | Other<br>Category2    | Other<br>Category3                 | Other<br>Category4      | Other<br>Category5       |

796

00:31:02 Time left of current selections  
13 Number of Songs left to Play

Music Play List

| Song Title  | Artist                      |
|---|-----------------------------|
| Gee   | Crows                       |
| <input checked="" type="checkbox"/> Great Balls Of Fire | Jerry Lee Lewis             |
| <input type="checkbox"/> Runaround Sue                  | Dion                        |
| <input type="checkbox"/> Rock Around The Clock          | Bill Halley and The Commets |
| <input checked="" type="checkbox"/> Banana Boat (Day O) | Harry Belafonte             |
| <input type="checkbox"/> Lets Twist Again               | Chubby Checker              |

797

799A

EXPAND NEXT PICK MIX-UP DELETE CLEAR

Organize Descending Ascending MUSIC CATEGORIES Search Music Categories Clean Search List

| Song Title          | Artist          | Data | Music Category | Music Style | Dance Type    | Music Speed | Energy |
|---------------------|-----------------|------|----------------|-------------|---------------|-------------|--------|
| Banana Boat (Day O) | Harry Belafonte | 57   | Oldies         | Upbeat      | Special Dance | FAST        | ENERGY |
| Great Balls Of Fire | Jerry Lee Lewis | 57   | Oldies         | Upbeat      | Fast          | FAST        | ENERGY |
| Eight Days A Week   | Beatles         | 64   | Oldies         | Upbeat      | Fast          | FAST        | ENERGY |
| Hound Dog           | Sha-Na-Na       | 79   | Oldies         | Upbeat      | Special Dance | FAST        | ENERGY |
| Rebel Rouser        | Duane Eddy      | 58   | Oldies         | Upbeat      | Fast          | FAST        | ENERGY |

799B

PLAY SAVE S1 S2 S3 S4 HELP UNDO EXIT

NOW LOAD

795 803

FIG. 23

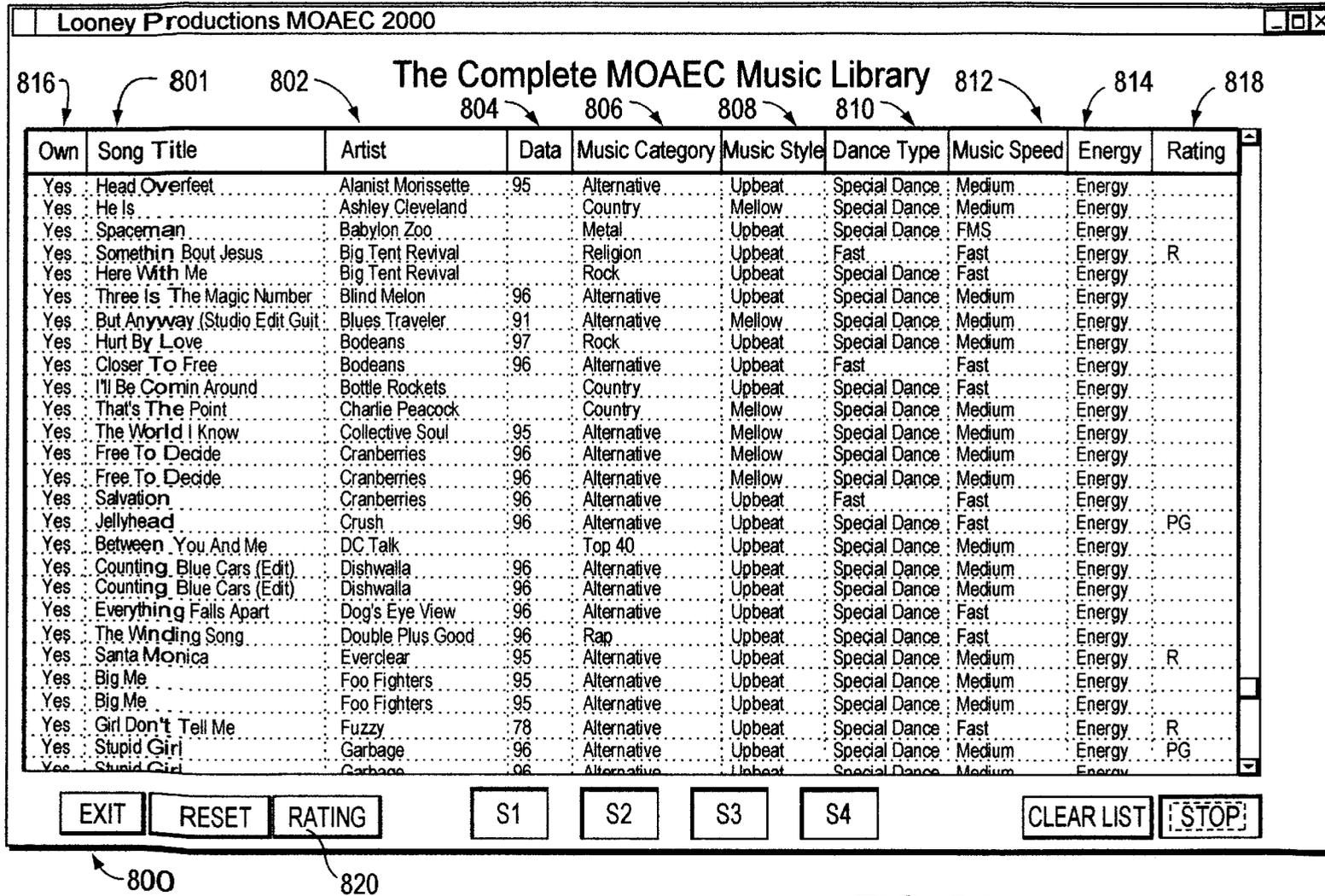


FIG. 24

Looney Productions MOAEC 2000

### The Complete MOAEC Music Library

| Own | Song Title                   | Artist           | Data | Music Category | Music Style | Dance Type    | Music Speed | Energy | Rating |
|-----|------------------------------|------------------|------|----------------|-------------|---------------|-------------|--------|--------|
| Yes | Head Overfeet                | Al               |      |                | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | He Is                        | As               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Spaceman                     | Ba               |      |                | Upbeat      | Special Dance | FMS         | Energy |        |
| Yes | Somethin Bout Jesus          | Bi               |      |                | Upbeat      | Fast          | Fast        | Energy | R      |
| Yes | Here With Me                 | Bi               |      |                | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | Three Is The Magic Number    | Bl               |      |                | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | But Anyway (Studio Edit Guit | Bl               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Hurt By Love                 | Bd               |      |                | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Closer To Free               | Bd               |      |                | Upbeat      | Fast          | Fast        | Energy |        |
| Yes | I'll Be Comin Around         | Bd               |      |                | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | That's The Point             | Ch               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | The World I Know             | Cd               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Free To Decide               | Cr               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Free To Decide               | Cr               |      |                | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Salvation                    | Cr               |      |                | Upbeat      | Fast          | Fast        | Energy |        |
| Yes | Jellyhead                    | Cr               |      |                | Upbeat      | Special Dance | Fast        | Energy | PG     |
| Yes | Between You And Me           | DC Talk          |      | Top 40         | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Counting Blue Cars (Edit)    | Dishwalla        | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Counting Blue Cars (Edit)    | Dishwalla        | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Everything Falls Apart       | Dog's Eye View   | 96   | Alternative    | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | The Winding Song             | Double Plus Good | 96   | Rap            | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | Santa Monica                 | Everclear        | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy | R      |
| Yes | Big Me                       | Foo Fighters     | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Big Me                       | Foo Fighters     | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Girl Don't Tell Me           | Fuzzy            | 78   | Alternative    | Upbeat      | Special Dance | Fast        | Energy | R      |
| Yes | Stupid Girl                  | Garbage          | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy | PG     |
| Yes | Stupid Girl                  | Garbage          | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |

Choose from following options to control the music your MOAEC will search, display, and play.

Blocking Options

Do Not Block Any Music

Block "PG" and "R" Rated Music

Block "R" rated Music Only

Cancel    OK    Password

EXIT
RESET
RATING

S1
S2
S3
S4

CLEAR LIST
STOP

820    822    824

FIG. 25

**The Complete MOAEC Music Library**

| Own | Song Title                   | Artist            | Data | Music Category | Music Style | Dance Type    | Music Speed | Energy | Rating |
|-----|------------------------------|-------------------|------|----------------|-------------|---------------|-------------|--------|--------|
| Yes | Head Overfeet                | Alanis Morissette | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | He Is                        | Ashley Cleveland  |      | Country        | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Spaceman                     | Be                |      |                |             |               | FMS         | Energy |        |
| Yes | Something Bout Jesus         | Bi                |      |                |             |               | Fast        | Energy | R      |
| Yes | Here With Me                 | Bi                |      |                |             |               | Fast        | Energy |        |
| Yes | Three Is The Magic Number    | Bi                |      |                |             |               | Medium      | Energy |        |
| Yes | But Anyway (Studio Edit Guit | Bi                |      |                |             |               | Medium      | Energy |        |
| Yes | Hurt By Love                 | Be                |      |                |             |               | Medium      | Energy |        |
| Yes | Closer To Free               | Be                |      |                |             |               | Fast        | Energy |        |
| Yes | I'll Be Cornin Around        | Be                |      |                |             |               | Fast        | Energy |        |
| Yes | That's The Point             | Ch                |      |                |             |               | Medium      | Energy |        |
| Yes | The World I Know             | Ch                |      |                |             |               | Medium      | Energy |        |
| Yes | Free To Decide               | Ch                |      |                |             |               | Medium      | Energy |        |
| Yes | Free To Decide               | Cranberries       | 96   | Alternative    | Mellow      | Special Dance | Medium      | Energy |        |
| Yes | Salvation                    | Cranberries       | 96   | Alternative    | Upbeat      | Fast          | Fast        | Energy |        |
| Yes | Jellyhead                    | Crush             | 96   | Alternative    | Upbeat      | Special Dance | Fast        | Energy | PG     |
| Yes | Between You And Me           | DC Talk           |      | Top 40         | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Counting Blue Cars (Edit)    | Dishwalla         | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Counting Blue Cars (Edit)    | Dishwalla         | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Everything Falls Apart       | Dog's Eye View    | 96   | Alternative    | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | The Winding Song             | Double Plus Good  | 96   | Rap            | Upbeat      | Special Dance | Fast        | Energy |        |
| Yes | Santa Monica                 | Everclear         | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy | R      |
| Yes | Big Me                       | Foo Fighters      | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Big Me                       | Foo Fighters      | 95   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |
| Yes | Girl Don't Tell Me           | Fuzzy             | 78   | Alternative    | Upbeat      | Special Dance | Fast        | Energy | R      |
| Yes | Stupid Girl                  | Garbage           | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy | PG     |
| Yes | Stupid Girl                  | Garbage           | 96   | Alternative    | Upbeat      | Special Dance | Medium      | Energy |        |

**MOAEC**

Please enter your password

EXIT

RESET

RATING

S1

S2

S3

S4

CLEAR LIST

STOP

800      820      826

**FIG. 26**

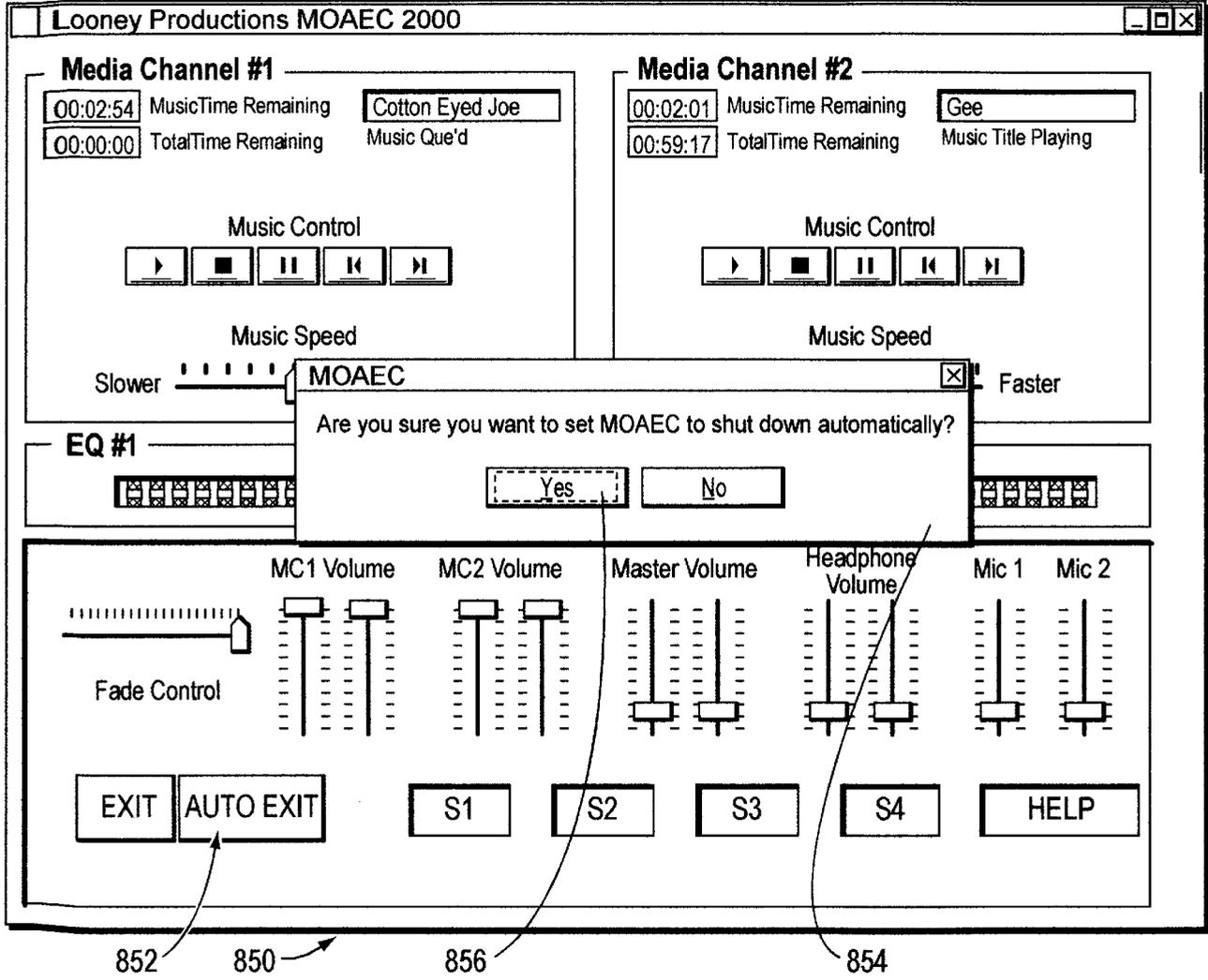


FIG. 27

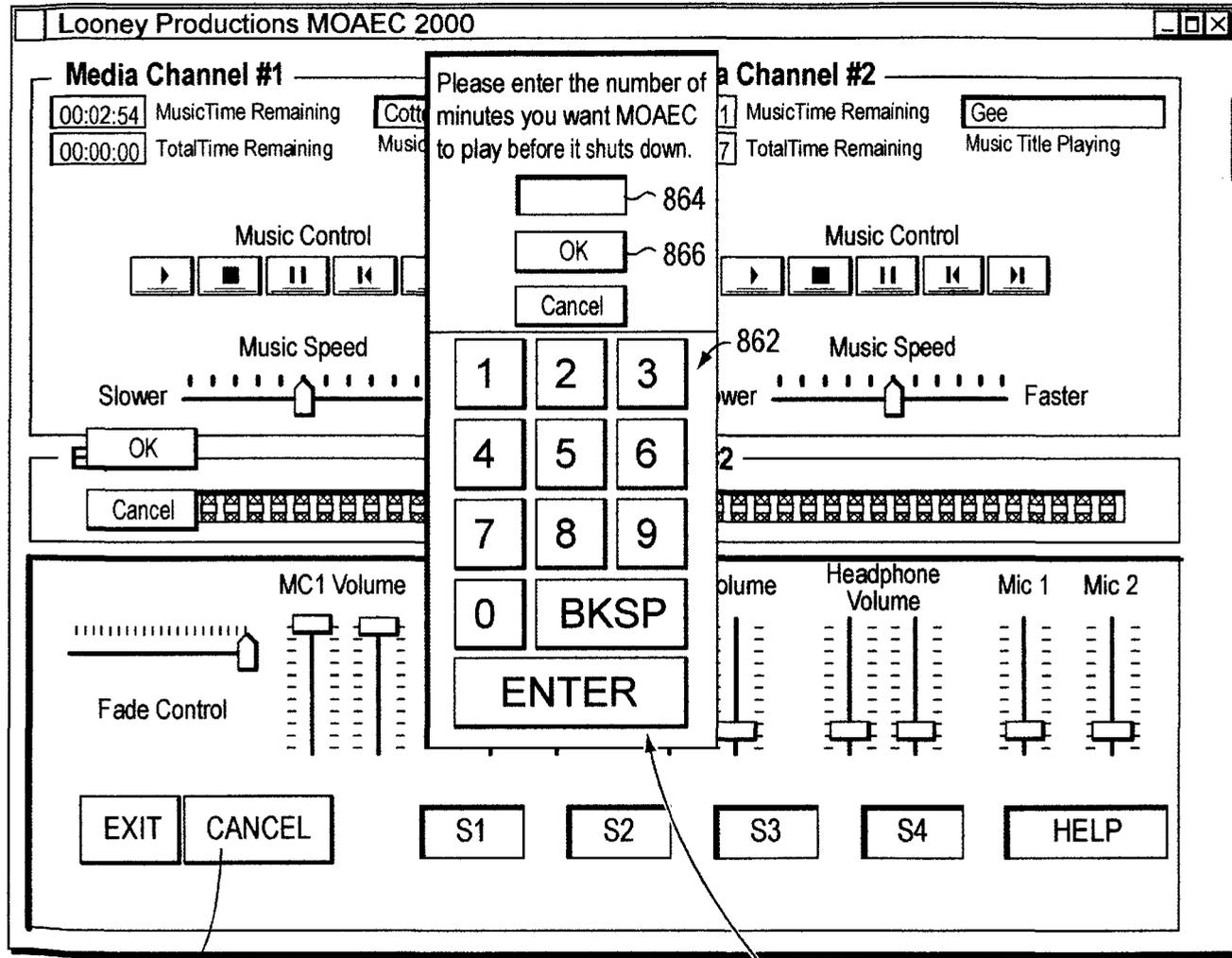


FIG. 28

## MUSIC ORGANIZER AND ENTERTAINMENT CENTER

This application includes a Microfiche Appendix pursuant to 37 CFR 1.96(c) that contains a computer program listing of program commands in the commercially available Visual Basic language for implementing various functions of one embodiment of the center of the present invention described herein. The total number of microfiche and the total number of frames in the Microfiche Appendix are 2 and 103, respectively. A portion of the disclosure of this patent document or patent disclosure contains material, which is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent file or records, but otherwise reserves all copyright rights whatsoever.

### FIELD OF THE INVENTION

This invention relates to music recording and playback systems, and more particularly to a system that enables storage and playback of a wide range of individual music selections/songs according to a pre-programmed list of categories.

### BACKGROUND OF THE INVENTION

The storage of music on digital media has presented a number of opportunities to miniaturize storage devices for music, thus enabling larger amounts of music to be stored in one place, and to radically alter the presentation of this music. In addition to the actual music sound data, new data related to certain characteristics of the music can now be overlaid in the storage media. This enables a listener to organize and playback music in a highly customized manner. It is no longer strictly necessary to store music in one format (e.g., a single disc or record) and playback individual selections from this disc or record according to a strict organization scheme. Likewise, advances in data compression and storage technology have enabled much larger quantities of digital data to be stored on magnetic disc and optical media than previously. The "Red Book" format common to music compact discs is somewhat inefficient due to its slow sample rate, and a much larger amount of data can be compressed on a standard data optical disc (CD-ROM), and decompressed and replayed using any number of readily available playback software routines.

In addition, most computers and data processing devices are now equipped with multimedia programs and advanced high-fidelity sound.

It is, therefore, an object of this invention to provide a music organizer and entertainment center that takes advantage of the latest advances in music data compression, storage and data processing capabilities. It is a further object of this invention to provide a user with the ability to fully customize playback of music according to a variety of parameters including categories of music. The graphical presentation of playback and storage controls should be easy to use and learn, and should take advantage of color and other visual aids.

### SUMMARY OF THE INVENTION

This invention overcomes the disadvantages of the prior art by providing a music organizer and entertainment center that enables customized playback of music having a variety of predetermined categories that are provided, typically,

ahead of time by a service provider. Music is played back in any desired order based upon those categories from an onboard database that can include a large number of songs or titles.

The music organizer and entertainment center provides a center having a microprocessor, sound card functions and high-volume data storage and retrieval units for playing back music according to a variety of predetermined categories. Music can be played back in random form or can be played back according to a particular pre-selected order. The categories are provided by service provider who delivers selected titles and/or songs to the end user. The songs are typically loaded using a custom CD-ROM provided from the service provider. The music is provided in data-compressed form and is decompressed and processed through a sound card during playback. The categories can include a variety of parameters such as title, artists, date, speed, dance characteristics, energy level and music style.

The user selects between a variety of graphical user interface screens that are arranged on a display. The display can comprise a touch screen, or can include a variety of cursor-moving functions for operating different display "buttons" defined on the screen. Alternatively voice recognition software can be used to provide a voice operation capability to the user. Likewise, voice synthesis can be used to inform the user of various system operations.

The interface can be organized according to various music categories that each appear as buttons. Within each button can be contained sub-categories for further organization. All categories are cross indexed with categories that are pre-defined within various fields of the database, that stores the data for each song in an appropriate file having the various category flags appended thereto. Conventional database software such as Microsoft Access® can be used in forming the database for compressed music data and categories. The music is preferably compressed using MPEG3 and a standard sound card, typically having high-fidelity characteristics is used to playback the decompressed music. The music is stored in a hard drive or other high-volume storage medium on the system in compressed form. Compression of the music, as well as loading of appropriate category flags is accomplished at the service provider's facility based upon the user's orders. Orders can be taken and filled electronically, via the Internet. Alternatively, oral orders can be made, that are filled by preparing a CD-ROM containing the selected songs in compressed form. A master list can be contained on the database of the users' system. This master list can be used to select the various songs from the service provider; the CD-ROM can include updates to the master list that are loaded along with the songs.

The CD-ROM and/or individual songs can include a special code or identification that is keyed to the user's system's code. In this manner only the user's system can load the songs on its hard drive. A docking mechanism can be provided to all or part of the system to allow songs to be moved to different playback devices. In this manner the user can have a library of songs to playback in a variety of portable and fixed base units including vehicles.

One of the categories provided to selections can be ratings. Ratings are typically provided ahead of time by the service provider and are appended to the overall database of categories. The user has, in the center, a facility for blocking out any songs from being listed or searched that exceed a predetermined rating category. A password is used to control the block-out function. This password is initially entered by the user or is provided ahead of time by the service provider. It must be entered in order to control the block-out function.

The center can also be provided with an auto exit function. When an initial screen is called, the user can indicate how many minutes he or she wishes the center to playback songs. When that number of minutes has elapsed, the center automatically shuts off.

It is contemplated that with appropriate data storage techniques and playback facilities, the center can organize video and image data as well as music data. Particular video data compression and playback hardware and software are typically required for such playback.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing and other objects and advantages of the invention will become more clear with reference to the following detailed description, as illustrated by the drawings in which:

FIG. 1 is a perspective view of an exemplary music organizer and entertainment center according to an embodiment of this invention;

FIG. 2 is a perspective view of an exemplary music organizer and entertainment center designed for portability according to an alternate embodiment of this invention;

FIG. 3 is a schematic block diagram of the hardware architecture of an exemplary music organizer and entertainment center;

FIG. 4 is a schematic flow diagram illustrating a basic control data path for the music organizer and entertainment center of this invention;

FIG. 5 is a schematic flow diagram illustrating the use of a graphical user interface screen selected according to the flow diagram of FIG. 4;

FIG. 6 is a schematic flow diagram showing the selection of a graphical user interface screen selected according to the flow diagram of FIG. 4;

FIG. 7 is a schematic flow diagram showing the selection of a graphical user interface screen selected according to the flow diagram of FIG. 4;

FIG. 8 is a schematic flow diagram of a graphical user interface screen selected according to the flow diagram of FIG. 4;

FIG. 9 is a schematic flow diagram of the playback process using the graphical user interface screens selected according to the flow diagram in FIG. 4;

FIG. 10 is a schematic flow diagram showing the saving and loading of play lists using the music organizer and entertainment center according to this invention;

FIG. 11 is a plan view of a first graphical user interface screen;

FIG. 12 is a plan view of a second graphical user interface screen;

FIG. 13 is a more-detailed plan view of the second graphical user interface screen of FIG. 12;

FIG. 14 is a more-detailed plan view showing the saving of music play list selections using the graphical user interface screen of FIG. 12;

FIG. 15 is a more-detailed plan showing the loading of a music play list using the graphical user interface screen of FIG. 12;

FIG. 16 is a plan view of a third graphical user interface screen;

FIG. 17 is a plan view of a fourth graphical user interface screen;

FIGS. 18 and 19 are perspective views of an exemplary music organizer and entertainment center according to an

alternate embodiment of this invention utilizing a base unit and docking principle;

FIG. 20 is yet another alternate embodiment of a music organizer and entertainment center utilizing a docking principle for a main hard drive;

FIGS. 21 and 22 are perspective views of yet another exemplary music organizer and entertainment center for use in mobile environments including, for example, the docking element shown in FIG. 20;

FIG. 23 is a plan view of the graphical user interface screen of FIG. 12 detailing a favorite hits function;

FIG. 24 is a plan view of the fourth graphical user interface screen showing a display of the service provider's available library;

FIG. 25 is a plan view of the graphical user interface screen of FIG. 24 showing the use of a rating category;

FIG. 26 is a plan view of the graphical user interface screen of FIG. 24 showing a password entry window for retrieving rated music;

FIG. 27 is a plan view of a modified first graphical user interface screen according to another embodiment of the invention, including an auto-exit function; and

FIG. 28 is a plan view of the graphical user interface screen of FIG. 27 showing a shut-down time control window.

#### DETAILED DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS

A generalized embodiment of a music organizer and entertainment center 50 is detailed in FIG. 1. For the purposes of this description the term "center" will be used to describe any of the music organizer and entertainment center systems described herein.

The center 50 is a stand-alone unit powered by household current using a conventional power cord 52. The chassis 54 of the center includes at least two integral speakers 56 to provide stereo sound. A variety of horn-folding and acoustic enhancement techniques can be used to increase the performance of the speakers. Alternatively, separable speakers can be used, placed at remote locations in a room. The front panel 58 of the center can include a variety of knobs, switches and displays. In this embodiment, a basic LCD display 60 is shown and a retractable tray mechanism for receiving an optical data or music compact disc is also provided 62. This tray 62 is conventional according to this embodiment, extending outwardly and retracting inwardly based upon a switch 64. The transport mechanism and reading mechanism can be conventional. The center includes a flip-up type display 70 according to this embodiment. The display is located on the top 72 of the center and is retractable into a recess 74. A large button 76 is provided to support the display 70 in an upright position. This button can be spring-loaded. When it is pushed downwardly, it allows the display to be adjusted into different position. A latch mechanism 78 can be provided to the display 70 and to the recess 74. The latch mechanism allows the display to be locked into a close position, or, alternatively, released for deployment as shown. The display, itself, includes a screen 80 having any acceptable size, format and display technology. For example, a color active-matrix screen, such as that found in a laptop computer can be used. The pixel dimensions are generally comparable to those of a laptop computer display. The display itself includes a graphically user interface with a series of displayed graphical user interface "buttons" 82 that can be actuated using a touch-screen layer

applied to the display **80**. The touch-screen hardware and controller software are conventional and commercially available. Alternatively, a mouse or other cursor-moving mechanism, such as a track ball, can be provided to the chassis **54**.

With reference to FIG. 2, an alternate embodiment of a center **90** is detailed. This center comprises a laptop arrangement having a base **92** and a foldable display section **94**. This center can comprise, in essence, a modified laptop computer with all the basic components of a modern multimedia computer system. Certain personal computer components not specifically required for the purposes of this embodiment can be omitted. For example, a display **96** having buttons **98** as described above can be provided. A plurality of speakers **100** can also be provided representing base, midrange, tweeters, etc. Volume and screen display controls **102** can also be provided as well as a basic alphanumeric keyboard **104** of conventional design. A retracting compact disc tray and reader **106** can also be provided. An onboard battery (not shown) provides power while an AC/DC converter **108** recharges the unit based upon household current provided by a power cord **110**. Note that automotive DC current can also be used.

The generalized architecture of a center is further detailed in FIG. 3, complete with optional components. The "heart" of the center is its central processing unit or CPU **130**. The CPU, in a preferred embodiment comprises a Pentium® II microprocessor having an operating speed of 266 MHz or greater available from Intel. The architecture of this microprocessor is well-known. It is adapted to accept inputs from a variety of hardware components. These hardware components are, themselves, commercially available and can be interfaced with the CPU **130** by those of ordinary skill. In summary, the components involved in a complete center will now be described.

A random access memory (RAM) **132** is provided to support the CPU **130**. This RAM typically provides twenty megabytes of storage or greater. A keyboard and/or cursor-moving mouse interface is also provided. The keyboard **134** can be omitted in certain embodiments where a touch-screen is used for all onboard functions. For example, the touch-screen, shown as a touch-screen interface **136**, and used in conjunction with the monitor screen **140**, can include a touch-keyboard thereon for entering alphanumeric characters. Where a monitor **140** is used, a video driver card **142** of conventional design is provided. A conventional television can also be utilized. Where a television screen is used for displaying data, a scan converter **146** can be provided. The scan converter **146** can be used for output **150** to the television screen and/or input **152** from, for example, a television remote control **154**. In this manner both input and output via a television and/or computer monitor can be accomplished. A microphone **160** and appropriate voice recognition card **162** can also be provided in conjunction with the CPU. Additionally, a CD-ROM, with appropriate driver card **170** can also be provided. For output, a sound card, available from a variety of commercial sources such as the Soundblaster® driver **180** can be employed and appropriate amplifiers and speakers **182** can be provided. The amplifiers and speakers are conventional and receive inputs from the sound card in the form, typically, of analog audio signals.

Input/output exchange of data is provided through a hard drive storage **190**, also of conventional design. As will be described further below, the hard drive storage interacts with the CPU **130** using onboard software. This software includes a speech recognition software block **200** a sound decompression software block **210**, a sound information database **220** the center's proprietary speech vocabulary **230** and the center's search and play interface **240**.

A significant feature of the center, to be described in greater detail below, is the organization of individual songs or selections according to specific categories, that are determined ahead of time, on a partially subjective basis, by the service provider. These categories are carried in a database, along with the raw digital music data, and allow the user to playback each of the individual selections based upon specific categories in a random or ordered manner. The use of categories for storage and playback empowers the user in an entirely new way. Songs can be chosen based upon a specific desire or mood that relates to categories such as music age, energy, speed, style, dance, or rating. Experienced listeners can enjoy new convenience in music playback. Newer listeners typically find their use of the center to be highly educational, as they quickly learn to associate certain types of categories with specific selections, artists and songs, and can enjoy the benefit of a full display of the song data via the center's screen.

With reference to the above-described architecture, the procedure by which individual songs become categorized and eventually made available for a user to playback according to particular categories will be described in summary:

1. Musical source material is first purchased or otherwise acquired by the service provider that services the music organizer and entertainment center of this invention. This music is typically obtained in standard Red Book compact disc format on individual music albums and singles.
2. A standard compact disc player, DAI or other audio playback medium is used by the service provider in conjunction with a main computer having a large database. A hard drive rated at five gigabytes or larger is used in conjunction with the database.
3. Music is played by the playback device into a data compression card commercially available from, for example, Dialog Four™. This data compression card compresses the music into the commercially available MPEG3 format. A CPU, similar to that shown in FIG. 3 stores the music in the hard drive of the service provider in compressed form. Individual songs are each given their own file identifier for later processing.
4. Compressed music is subsequently catalogued using a conventional database program such as Microsoft Access® 2.0 in this embodiment. The following categories, among others can be used in conjunction with the database program to catalog each individual musical selection-song title, artist, date, main music category, sub-main music category, special music category, sub-music category, music style, dance type, music speed and a subjective music "energy level" determined by the service provider. These categories are used subsequently by the center's operating system as described below. All categories are stored in the service provider's hard drive for subsequent retrieval.
5. A master list of available music, in the form of individual selections or songs, is compiled by the service provider. Individual customers or subscribers are solicited to select songs or groups of songs or selections from a service

provider. According to a preferred embodiment, the selected songs are copied from the service provider hard drive to a writable data compact disc in MPEG3 compressed format. The center operating system software and Access® 2.0 database program available from Microsoft, Inc. of Redmond, Wash. can also be loaded onto this compact disc when the playback device does not already contain these software packages.

The package of data compressed songs and other software if applicable, is tagged with a distinct serial number or other identifier and/or format that matches a pre-loaded serial number or format in the subscriber's particular center. This serial number or format has been pre-loaded in the center from software made available by the service provider. For example, a commercially private or public key encryption algorithm can be provided to the subscriber. The data in the compact disc includes an appropriate encryption key that matches one already present in the center. Compressed data can be decrypted and "unlock" based upon a match between the key provided by the service provider and the key provided by the center. In any case, a technique for locking information so that only a desired center can read the information and, hence, play the songs, is provided. This prevents copyright infringement and unauthorized playback of songs by other units that have not paid appropriate license fees for receiving the music.

6. As noted above, a formatted, data-compressed disc is provided to the subscriber via a physical transfer of the disc. In other words, the disc is mailed or otherwise delivered to the subscriber. It should be noted that, while an optical disc is the preferred form of data transfer according to an embodiment of this invention, another form of storage media such as tape, circuit chips, removable hard drive, or any other acceptable high-volume data storage can be used to transfer song data. Likewise, the formatted compressed data can be transferred via a radio or telephone network link, assuming that appropriately wide bandwidths is available to enable the transfer to occur in a sufficiently short period of time. All these techniques of transferring formatted, compressed, customized song data are expressly contemplated according to this invention. It is desired primarily that the data include various categories as described above with reference to step 4.

When the subscriber receives the customized song data on the disc or other medium, the customer installs the disc in his or her center by following conventional installation and instructions provided with the disc. As noted, the center either includes well known CD-ROM installer routines, such as those found in popular Windows® operating system available from Microsoft or, alternatively, specialized installation software is included with the disc transferred from the service provider. All data on the disc is typically transferred into the high-volume hard drive or other storage media provided with the center. The song data, therefore, resides in the center formatted in the Access® 2.0 database as described above. The categories appended to each song as part of the database program also reside in the center's hard drive at this time.

7. The center's software loads data related to individual song selections and categories into appropriate database locations.

8. The center polls data in the downloaded disc to determine whether the appropriate identification code and/or serial number, matching that of the center is present. If not, then the downloading process is terminated, and the user is advised to contact the service provider.

9. If downloading of song data is completed successfully, then the data becomes resident on the center's disc drive or other high-volume random access memory storage unit. New songs are appended to a list that contains any previous songs. This information is displayed in a manner to be described further below.

10. The CD-ROM is subsequently removed from the center and stored for backup purposes. At this time, the user can select various songs downloaded in the previous steps using various graphical user interface and/or voice commands to be described further below.

11. Upon playback, song data is decompressed from its stored format using MPEG3 data compression. The decompressed song data is then played in a standard "wave" format using, for example, Winplay 3® available from Microsoft, or another data-to-sound software procedure. It is contemplated that the software procedure be compatible with an appropriate sound card, as described above. Speakers and an amplifier are used to deliver music to the user, as also described above.

Reference will now be made to the flow diagrams illustrated in FIGS. 4-10, and corresponding graphical user interface display screen illustrations will also be referenced. These display screens are shown in FIGS. 11-17.

Referring first to FIG. 4, the user initializes the program in a program start step 300. A title screen, not shown, is displayed 302. Any acceptable title screen can be used. The title screen prompts the user to enter the program in step 304. If the user does not desire to enter the program, it ends in step 306. If the user enters the program, then Screen1 is entered in step 308. Screen1 is shown in the display 310 in FIG. 11. Note that the various screens, entitled Screen1, Screen2, Screen3 and Screen4 are denoted respectively by buttons S1 (312), S2 (314), S3 (316) and S4 (318). These buttons appear on the bottom of all display screens used herein so that a user can quickly select between different control screens. The blank control fields are displayed in step 320. Based upon these fields, a user selects between Screen1 controls in step 322, Screen2 controls in step 324, Screen3 controls in step 326 and Screen4 controls in step 328.

Note that the Screen2 display 330 is shown in FIGS. 12, 13, 14 and 15. Likewise, Screen3 displays 332 are shown in FIG. 16 and Screen4 displays 336 are shown in FIG. 17. These screen displays will be described further below.

With reference to Screen1, as shown in FIG. 11, various media channels for playing back music can be established. In this example, Channel1 340 and Channel2 342 are provided. Each channel includes an individual set of speed and playback buttons 344 having conventional control symbols allowing, for example, play, stop, pause, forward and reverse. Additional controls 346 can also be provided for the channels and can be used, for example, for specialized functions such as mixing of songs and overriding of songs using, for example, external microphone inputs. Note that, in particular, a fade control 348 is provided.

FIG. 5 details user operations utilizing Screen2 after branching from step 350. Screen2 is shown generally in FIG. 12, as noted above. By branching to the searching step 352, a user can search the main categories of music recognized by the system. The begin search button 354 (FIG. 12) controls the searching of main categories. As noted, a variety of categories such as artists, as shown in FIG. 12, can be searched. The selection of an appropriate category is noted in block 358. Various text can be entered using a keyboard 360 (FIG. 12) according to the block 362. The particular

element being searched as shown in the window 364 causes the system program to access a main song database entitled MyData in block 364. The request can be canceled in block 370, which causes a branching back to the initial screen block 350. The button 372 enables cancellation.

If no cancellation occurs, then block 374 determines whether the requested category and text within the category exists. In addition, categories and information can be characterized according to a variety of colors, as displayed in the partial window of categories 380 and the more complete window, as shown in FIG. 13 as window 382. If the particular category and/or text does not exist, then block 388 notes its absence and suggests ordering the desired music. This block then branches to the cancellation block 370. Conversely, if the particular categories and/or text exists, then the appropriately organized songs are displayed according to block 390 in the window 392.

Screen2 acts generally, as a main control screen for searching and playing any selections within the center. The illustrated window 382 in FIG. 13 shows some of the possible categories that can be organized by the service provider and cross-referenced within the database with respect to each individual selection. "Other category" buttons 400 are provided for future expansion. If one of the main category buttons in the window 382 is selected, as shown in block 410, then the routine determines whether a single or double "click" of the user interface has occurred. If a single click occurs as shown in block 412, then the system prompts the user to select a music "speed" in block 414 according to screen button 416. The user is then prompted to input an appropriate time duration within which music will be played in block 418 based upon button 420. Given these parameters, the system accesses the database in step 422 to determine music matching, the selected criteria for time and category. Songs are entered in a play list according to the categories based upon blocks 424, 426 and 428. In particular, according to block 428, the songs can be randomized after the time and category criteria have been met to provide a "disc-jockey" type playback which is somewhat arbitrary. The play list for the given time is detailed in window 430. The number of songs in the play list currently remaining as shown in window 432 and the time remaining is shown in window 434. Time values are based upon pre-entered time values provided by the service provider in the original database. Like other criteria, time of a song can be determined as an individual criteria. Conversely, the time of song can be measured based upon the size of the data file and upon other criteria well known to those of ordinary skill.

At any time, a portion of the current search list 451 is displayed, showing the various depicted categories such as title, artist, publication date, music category music style, dance type, music speed and energy in row-and-column form. The search list represents the selections located by pressing one or more category buttons. Songs from the search list can be appended to the end of the play list 430 by, for example clicking on their entry in the search list 451.

Once a selected play list is created, the user has the option to load and/or save the play list using respective buttons 438 and 440. If the save button 440 is pressed, then a confirmation window 450 is displayed as shown in FIG. 14. This particular play list is assigned a name and can be replayed at any give time by calling up the particular play list from a menu.

A set of buttons of particular interest are used to organize the search list 451 so that the song titles therein are displayed in a desired manner. The organize button 453 allows displays to be refined. In particular, by pressing either ascending or descending buttons 455 and 457, respectively, the search results can be displayed in corresponding order.

Another button of interest as detailed in FIG. 13 is the "dance mix" button 452. This button is a default selection button that selects and searches for dance music having a particular speed. In a preferred embodiment, this function specifically selects, at random, from the MyData database three dance category songs with a fast speed category followed by two dance category songs having a slow speed category. These songs, the order three fast and then two slow are placed in the music play list for playback at the earliest available time.

FIG. 15 shows a file listing window 460 having a four separate play list files 462 that can be selected. The selected play list file 462 can be transferred to the main music play list window 430 by pressing the open button 464 within the window 460.

Before discussing the system procedure further, it is noted that pressing the category button as detailed in step 410 (FIG. 5) twice (e.g., "double click") as shown in block 470, causes the particular category button to display Screen3 480 (FIG. 16). The display of Screen3 is detailed in block 472. Screen3 provides a window 482 with subcategories that fall under a particular music category. The sub-categories are listed as individual buttons 484. These categories can comprise a variety of parameters such as time frame, special occasions, type of music, etc. In addition, the basic categories such as speed or "energy" can be included as sub-categories under a particular category.

Further reference is made to FIG. 6. The controls for screens 2 and 3 will be described first, in further detail. When a particular song in a play list is selected by, for example, highlighting a song with the cursor as detailed in block 500, the song can be played immediately by pushing the Now button 502 as detailed generally in block 504. Any current song being played is interrupted in block 506 and the selected song is played instead. Subsequently, the play list begins playing songs in the prior order in block 508. Conversely, if the sort command is given in block 510, then songs are sorted in ascending or descending order according to a selected category in block 512. A song in the search list is selected in block 514. The song selected can be played according to the Now block 504. Alternatively, the pick block 516 can be used to put the searched song at the end of a given play list as shown in block 518. If the play list song is "clicked" twice as shown in block 519 then the search list song selected is placed to the top of the play list in block 520. In addition, a listing of favorite hits/selections can be requested by the user in block 524. This causes the search list to be filled that have been pre-selected in block 526 and a song from the search list is selected in block 514. Block 514 then branches to the now block 504 and continues as described.

Referring again to block 520, if a song is placed at the top of the play list the song is updated in Screen1 in block 530. The song is then played based upon the play block 532. If the mix up command is entered by the user in block 540, then songs in the play list are randomly mixed in block 542 and Screen1 is updated in block 530. As described above, the play command 532 causes songs to be played in the play list order selected in block 508.

The selection of Screen3, shown in block 560, then the system determines whether a main category was selected in block 562. If not, then an error message is displayed in block 564 and the original screen is re-displayed in block 566. If a main category is selected in block 562, then the system accesses the MyData database of songs and categories in block 568. Any appropriate sub-categories are listed based upon that particular main category in block 570. Sub-categories are sorted and displayed on appropriate default sub-category buttons 572 shown in the window 482 in FIG. 16. The user can select appropriate sub-category buttons by "clicking" on them as shown in block 574. The MyData database is accessed in block 576 based upon the selected sub-categories and all songs that match the main and sub-category selections are listed in block 578. This listing is shown in the search window 332. Note that the search window 332 displays various category information such as title, artist, date, music category, music is style, dance type, music speed and energy. Of course, this can also be included as desired by the service provider who originally formats such categories. In addition, custom category information can be included based upon the user's desires.

FIG. 8 relates to the selection of Screen4 as shown in block 550. Screen4 is also illustrated generally as the display 336 in FIG. 17. The display is organized to display all songs within the user's library and the broader service provider's library. The display 336 includes columns showing data test status 552, song identification number 554, disc number (e.g., the disc on the service provider on which the song resides 556) the catalog song number 558, the title 590, the artist 592, the music style 594, the dance type, if any, 596, the speed 598, the time in seconds 570, the energy level, if any, 572 and any other appropriate category.

The entire library of the service provider can be provided in this format to the users, so that the user can select the songs that it wishes to order at later times. A series of buttons can be provided within Screen4. The first button, Button1, shown in block 580 instructs the user to insert an appropriate CD-ROM containing music and category data in block 582. The user is then prompted to use Button2, shown in block 584. This button lists all compressed data files based on the particular disc and directory selected in block 586. The user is then prompted by Button3 in block 588. Activating this button causes the copying of all compressed files from the disc over to the directory if these files are not already present in block 560. The user is then prompted by Button4 in block 562. Activating this button accesses the main database in block 564. Songs on the CD-ROM are compared to the data records within the center in block 566. The MyData database is updated with new songs in block 567. At any time, the canceled button can be pressed as shown in block 598, which returns to the Button1 prompt of block 580.

Reference is now made to FIG. 9. If a Play (see button 601, FIG. 14) or Now button on the screen is selected in block 600, Screen1 is displayed showing the various playback controls in block 602. The MyData database is accessed in block 604. The file MID that matches the selected song is searched for by the system in block 606. The file is loaded from the disc in block 608. Again, this file is retrieved from the disc in MPEG3 data compressed format. A particular color for the song, which may correspond to a given set of categories, as well as a title and other data are provided to one of the media channels in Screen1 in block 610. The song begins playing in block 612 as soon as the data is ready. A time countdown for the song is initiated

using known techniques in block 614. If a pause, stop or mixed command is received in block 616 then these steps, is described above, are carried out. In particular, a pause or stop ends playing of the song either temporarily (e.g., until pause is pressed again) or permanently, in case of a stop command.

Volume adjustment and other equalizer values can be provided according to block 618 and 620. These act upon the playback of a song using known techniques. When the particular song has ended in blocks 622 the system checks whether it has reached the end of the current play list in block 624 if not, media channels are switched in block 626 and the next song on the play list is located in block 628. This song information is transferred back to block 604 and the name of that new song is located in block 606. The process continues as described above.

If the end of the play list is reached in block 624, then Screen1 controls are cleared in block 630. The system awaits further instructions at this time.

FIG. 10 describes the saving and loading of play list in more detail. If a save command is initiated by the user in block 650, then all song data and associated colored data for the display from the current play list is collected 652. The file save window is placed on the screen in block 654. The user can select an appropriate file name for saving the particular play list file in block 656. Again, the display for this procedure is detailed in FIG. 14

If a load command is entered by a user as shown in block 660, then the file load window is displayed in block 662. The display for this window is shown in FIG. 15.

Song and color data are read from the selected file in block 664 and the current play list is updated and/or replaced with all song in color data from the loaded file in block 666.

It is specifically noted that category information is provided by the service provider appended to each song in the database. The accessing of songs having such data appended thereto occurs according to applicant's unique graphical user interface based upon provider categories. The association of various database identifiers to each song is implemented using conventional database programs such as the above-described Microsoft Access® 2.0. The association of category objects to song data should be conventional to those of ordinary skill. The storage of MPEG3 data compressed song files is accomplished in the same manner as other data stored as files in a database. The Microfiche Appendix included in the subject application pursuant to 37 CFR 1.96(c) contains a listing of program commands in the commercially available Visual Basic language for implementing various functions of the center according to this embodiment.

Using the hardware and software elements described above, FIGS. 18 and 19 detail a docking mechanism in which music is stored on a hard drive or other electronic medium in a main data handling unit 700 with a flip-up display 702 and associated keyboard 704 that can include playback controls 706 (e.g., play, stop, pause, forward and reverse). The unit 700 can be "docked" to a base unit 708 that includes a connector 710 for interfacing with an associated connector in the unit 700. A cable 712 can interconnect the base unit 708 with appropriate speakers or amplifiers. The unit 700, hence, can include the music data for the system and can be moved from location to location so that there is no need to purchase additional playback units to play music provided from the service provider with the particular code.

FIG. 20 illustrates and alternate embodiment for docking unit in which a base unit 730 includes speakers 732, a power coupling 734, a flip-up display 736 and a removable memory storage device, such as a compact hard drive 738. The hard drive is shown removed in phantom 740. A connector 742 can interface with an associated connector (shown in phantom) 744 on the base unit. The hard drive, itself, it moved from base unit to base unit so that, again, there is need to purchase music only once, and that music is identified to a particular hard drive. The base unit can also include a CD-ROM shelf 748 for reading music during the original loading process. In certain remote units, the CD-ROM may be omitted, since all music is contained on the hard drive and loading of music is accomplished with the base unit 730. A mother board 750 controls the operations of the unit.

FIGS. 21 and 22 illustrate a mobile playback system according to this invention. The above described docking units in FIGS. 19 and 20 can be utilized in conjunction with this unit. In other words, an entire hard drive or unit can be interfaced with an onboard automotive base unit to enable music in the hard drive or docking unit to be played within a car or other vehicle. In this embodiment, the automotive interior 760 is provided with a main audio system 762. Various cords 764 interconnect the main system to a contact display unit 766 that, in this embodiment, is located on the sun visor 768 where the driver 770 can easily access it. It is contemplated that the display unit can be located at any acceptable location. Alternatively, the unit can be entirely operated by voice commands, with no display unit, and instead, a voice response system implementing conventional voice-generating software. With further reference to FIG. 22, the sun visor 768 is lowered to reveal the display 766 having a screen 780. The wires 764 interconnect the display with a power source 782, that can be part of the main audio systems 784 or can be separate. The wires also connect the display 780 with the main audio system 784, or alternatively, can be routed directly to the vehicle's onboard database reader 786. The database reader is any microprocessor-based system as described above. It can be exclusively a disc drive or other high-volume data reader or can include many of the processing functions performed by the center. Alternatively the processor functions can be performed within the display 766. The display 766 includes a microphone 788 for voice activation. As described above, conventional voice-recognition software can be used in conjunction with the center. A hand grip 790 is provided for moving the display to an acceptable position. The database reader interfaces with an onboard docking unit or disc 792, as described above. This can be removed when not in use for placement in another database reader, such as the base unit 730 shown in FIG. 20. Music is routed from the database reader 786 or the display 766 depending upon where the microprocessor are located, back to the main audio unit 784 where amplification occurs. The music is played back on appropriate speakers 794.

Reference is now made to additional features that can be implemented according to certain embodiments of the invention. FIG. 23 details a favorite hits function that can be applied to Screen2. The display 795 includes a favorite hits category creation button 796. Favorite hits, when identified

by a user on the current play list 797 can be flagged by "clicking" on the individual titles. A colored flag 798 appears next to flagged songs. Unflagging can involve a second click on a flagged song or a separate delete button on the screen. The flagged songs 799A appear as top selections 799B on the current search music categories list 803. By clicking on the create favorite hits button 796, these favorites can be saved, so that they always appear at the top of the search categories list 803. In this manner, they can be retrieved to place on the play list within seconds. Again, any song on the search categories list 803 can be transferred to the play list for playback in a desired order (typically first-in-first-out) by simply clicking or-double clicking on the specific search list song entry.

FIGS. 24, 25 and 26 detail an alternate view of Screen4, as discussed above. The display 800 includes an overall listing of the selections available from the service provider. A list of over one hundred thousand titles can be included in the MyData database, as selections are delivered from the service provider. The category fields described above are provided for each title 801—namely, artist 802, date of publication 804, specific music category 806 (e.g. "rock," "jazz," "alternative," etc.), music style 808, dance type 810, music speed 812 and energy 814. In addition, an ownership column 816 is provided that indicates whether the music data accompanying the title is present in the users own database. If so, the entry states "yes," otherwise a "no" indication is provided to the column 816 next to the particular title. In addition a rating column 818 is now is provided with an appropriate entry field in the database. In this example songs that the service provider may not think are suitable for certain listeners due to content are appended with a rating, as appropriate. In this example, all songs not rates are acceptable to all. A specific rating letter such as "G" can also be placed next to such songs in the column 818. Higher rated songs can include the rating letter PG, or stronger rating letter R, on their particular title row. The depicted ratings are exemplary only. The actual song titles shown should not be taken to have these actual ratings. The music selection list of Screen2 would also display ratings when they are used. Note that a variety of levels of rating and rating criteria can be used. In general such ratings are defined and appended to individual songs be the service provider.

FIG. 25 illustrates the activation of Screen4's rating button 820. This button calls a window 822 that prompts the blocking of R and/or PG-rated songs. In this manner, higher rated song titles cannot be viewed or played. This function is enable and disabled using a password that is entered after striking the password button 824 in the window 822. This button calls a password-entry window 826, detailed in FIG. 26. Once an initial password is entered, it must be reentered to change the rating blocking function or to change the password itself.

FIGS. 27 and 28, finally, illustrate an auto-exit option appended to the display 850 of Screen1 in this embodiment. An auto-exit button 852 can be clicked to call an automatic shut-down window 854. By clicking a "yes" button 856 in this window, the center calls another window (FIG. 28) with an auto-shutdown keyboard 860. The window 860 includes a numeric keyboard 862 for entering shutdown time in minutes. A time box 864 indicates the selected time. Press-

ing the "OK" button **866** causes the shutdown time to be acted upon. Playback will occur until the time has been elapsed. At any time, the cancel button **870** can be activated to cause the shutdown routine to cease and/or the window **860** to be removed from Screen1.

The architecture and database storage techniques, as well as the various graphical user interface functions described above can be readily adapted to handle images and full motion video as well. The primary addition to the above-described embodiments would be a screen capable of playing back video of appropriate size interconnected to the center's processor by an appropriate video driver card that is typically commercially available. In addition, appropriate data compression/decompression routines applicable to full motion video and/or images is desirable. In substance, the data for video packages is stored with various categories similar to or the same as those applicable to music described above. The graphical user interface is organized identically, as is control and manipulation of playback. In the case of music videos, most or all of the same categories as music can be used, with the addition, perhaps of certain video-specific categories.

A sufficiently large hard-drive can be used to store a large database of movies and/or other video data. Where storage is problematic, one example contemplates that the center's processor can interface with a commercially available, multi-disc CD-ROM or DVD (Digital Versatile/Video Disc) drive. The drive is interfaced to the processor using commercially available interface hardware. The raw video data can be retrieved as needed from the play-ready optical discs according to a request by the user entered via the MyData database which carries the underlying video category data associated with each video title in its list. Any titles not currently held in the optical unit, can trigger a load-optical-

disc message, prompting the user to load-in the optical disc containing the desired date. Of course, this is only one example of a system that handles video data using the underlying interface and organizational structure of the present invention.

Note that the graphical user interface herein has been described in terms of its primary functions. Any buttons on the display screens detailed herein not expressly described can be assumed to perform functions that are straightforward, and particularly noted on the buttons themselves, such as "OK" and "Cancel." All functions not specifically described should be clear to those of ordinary skill.

The foregoing has been a detailed description of a preferred embodiment of the invention. Various modifications and additions can be made without departing from the spirit and scope of this invention. For example, a variety of colors can be used for different keys and buttons, categories can be identified based on certain colors. Voice recognition and voice-playback functions can be provided to any of the embodiments described herein. Various interface devices can be used, such as touch screens, light pens and alike. In addition, the database, data compression and playback systems and software described herein can be substituted for any other acceptable system or software. The particular layout the graphical displays and content of various buttons in the display can also be varied. Again, it is expressly contemplated that particular category buttons on Screen2 are displayed in different colors, and that specific colors can be used to highlight certain windows or underlying selections in a display, as well as the status of various functions. Accordingly, this description is meant to be taken only by way of example and not to otherwise limit the scope of the invention.

APPENDIX**MOAEC CODE**

Updated 6/2/98

Author: Dale McMullin

Media: Microsoft Visual Basic V.5.0

Total Lines: 5,245

**"Recorder.frm"**

Sub UpdateList()

Dim i As Integer, final As Integer

Dim color As Long

Dim songdata(9) As Variant

On Error GoTo Stoploop

MusicListing.Rows = 1

Screen2.Data1.DatabaseName = App.Path &amp; "\music.mdb"

Screen2.Data2.DatabaseName = App.Path &amp; "\music.mdb"

Screen2.Data3.DatabaseName = App.Path &amp; "\mydata.mdb"

Screen2.Data3.RecordSource = "LP Complete Music Guide"

Screen2.Data1.Refresh

Screen2.Data2.Refresh

Screen2.Data1.Recordset.MoveLast

Screen2.Data1.Recordset.MoveFirst

final = Screen2.Data1.Recordset.RecordCount

Do While Not Screen2.Data1.Recordset.EOF And StoplistingList = False

LoopTop:

DoEvents

If PauseList = True Then NewPauseStartTime = Timer() - TimeSoFar

MousePointer = 11

Screen2.Data3.RecordSource = "LP Complete Music Guide"

Screen2.Data1.Recordset.MoveNext

i = Screen2.Data1.Recordset.AbsolutePosition

If i &lt; 0 Or StoplistingList = True Then Exit Do

songdata(1) = Screen2.Data1.Recordset.Fields("Title")

Screen2.Data3.Refresh

Screen2.Data3.Recordset.FindFirst "Title = " &amp; songdata(1) &amp; """

If Screen2.Data3.Recordset.NoMatch Then

songdata(9) = ""

If DisplayLibrary = False Then GoTo LoopTop

Else

songdata(9) = "yes"

End If

songdata(2) = Screen2.Data1.Recordset.Fields("artist")

songdata(3) = Screen2.Data1.Recordset.Fields("date")

songdata(4) = Screen2.Data1.Recordset.Fields("main1")

songdata(5) = Screen2.Data1.Recordset.Fields("Mstyle")

songdata(6) = Screen2.Data1.Recordset.Fields("Dtype")

songdata(7) = Screen2.Data1.Recordset.Fields("Speed")

songdata(8) = Screen2.Data1.Recordset.Fields("Energy")

Screen2.Data2.RecordSource = "Music Colors"

Screen2.Data2.Refresh

Screen2.Data2.Recordset.FindFirst "Main1 = " &amp; songdata(4) &amp; """

color = Val(Screen2.Data2.Recordset.Fields("colorID"))

For X = 4 To 8

DoEvents

Screen2.Data2.RecordSource = X

**MOAEC MASTER CODE** (page 1)

Sunspot Software and Graphics

303-805-7637

```

Screen2.Data2.Refresh
Screen2.Data2.Recordset.FindFirst "tag = " & songdata(X) & ""
songdata(X) = Screen2.Data2.Recordset.Fields("Label")
Next X
If DisplayLibrary = True Or (DisplayLibrary = False And songdata(9) = "yes") Then
    MusicListing.AddItem songdata(9) & Chr(9) & songdata(1) & Chr(9) & songdata(2) & Chr(9) & songdata(3) & Chr(9) &
songdata(4) & Chr(9) & songdata(5) & Chr(9) & songdata(6) & Chr(9) & songdata(7) & Chr(9) & songdata(8)

    MusicListing.row = MusicListing.Rows - 1

    For j = 0 To 9
        MusicListing.Col = j
        MusicListing.CellBackColor = color
    Next j
    MusicListing.Col = 0
End If

If StoplistingList = True Then GoTo Stoploop
DoEvents
Loop
Stoploop:
If Screen1.wp.LinkMode <> LINK_NONE And PauseList = True Then
    Screen1.wp.LinkExecute "pause"
    PauseList = False
End If
MousePointer = 0
Screen2.Data1.DatabaseName = App.Path & ".mydata.mdb"
Screen2.Data2.DatabaseName = App.Path & ".mydata.mdb"
Screen2.Data3.DatabaseName = App.Path & ".mydata.mdb"
Screen2.Data1.RecordSource = "LP Complete Music Guide"
Screen2.Data2.RecordSource = "LP Complete Music Guide"
Screen2.Data3.RecordSource = "Music Colors"
Exit Sub
End Sub

Private Sub ClearList_Click()
    MusicListing.Rows = 1
    StoplistingList = True
    If RatingBox.Visible = True Then RatingBox.Visible = False

End Sub

Private Sub ExitSystem_Click()
    response = MsgBox("Are you sure you want to exit the system?", 4)
    If response = vbNo Then
        Exit Sub
    Else
        ExitButtonPushed = True
    EndIfAll
End If
End Sub

Private Sub Form_Activate()

```

```

If MusicListing.Rows > 2 Or Screen.ActiveForm.Name <> "Recorder" Then Exit Sub
If FirstLibrary = True Then
    answer = MsgBox("Are you sure you want to create the Library?" & Chr(13) & "Any music playing will be automatically
paused.", 4)
    If answer = vbNo Then Exit Sub
    If SongPlaying = True And Screen1.wp.LinkMode <> LINK_NONE Then
        Screen1.wp.LinkExecute "pause"
        PauseList = True
    End If

    Load choices
    choices.Show 1

End If
If CancelLibrary = True Then
    CancelLibrary = False
    Screen2.Show
    Screen2.SetFocus
    Exit Sub
Else
    FirstLibrary = False
End If
UpdateList
End Sub

Private Sub Form_Load()
    Recorder.WindowState = 2
    FirstLibrary = True
    StoplistingList = False
    RatingBlock = "none"
    RatingOption(0).Value = True
    password = "MOAEC"
End Sub

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
    Dim Msg ' Declare variable.

    If ExitButtonPushed = False Then
        Msg = "Do you really want to exit the application?"
    Else
        ExitButtonPushed = True
    EndIfAll
End If

End Sub

Private Sub Form_Resize()
    On Error Resume Next
    If WindowState = 2 Then
        For X = 1 To 3

```

```

        ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
    Next X
    For X = 0 To 3
        ScreenShow(X).Top = Screen.Height - 1155
    Next X
    MusicListing.Height = Screen.Height - 2300
Else
    For X = 1 To 3
        ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
    Next X
    For X = 0 To 3
        ScreenShow(X).Top = Recorder.Height - 1155
    Next X
    MusicListing.Height = Recorder.Height - 2300
End If
Title.Left = (Recorder.Width / 2) - 3500
ExitSystem.Top = ScreenShow(0).Top
SearchAgain.Top = ScreenShow(0).Top
Rating.Top = ScreenShow(0).Top
SearchAgain.Height = ExitSystem.Height
MusicListing.Left = (Recorder.Width / 2) - (MusicListing.Width / 2)
StopListUpdate.Top = ScreenShow(0).Top
StopListUpdate.Left = Recorder.Width - 1560
ClearList.Top = ScreenShow(0).Top
ClearList.Left = StopListUpdate.Left - 1815
End Sub

Private Sub Form_Unload(Cancel As Integer)
    End!tAll
End Sub

Private Sub MusicListing_Click()
    If RatingBox.Visible = True Then RatingBox.Visible = False
    MusicListing.SelectionMode = flexSelectionFree
    MusicListing.Sort = 1
End Sub

Private Sub MusicListing_DblClick()
    If RatingBox.Visible = True Then RatingBox.Visible = False
    MusicListing.SelectionMode = flexSelectionFree
    MusicListing.Sort = 1
End Sub

Private Sub Rating_Click()
    Dim answer As String
    answer = InputBox("Please enter your password.")
    If answer <> password Then
        MsgBox "The password was incorrect."
        Exit Sub
    Else
        RatingBox.Visible = True
    End If
End Sub

```

```

End If

End Sub

Private Sub RatingCancel_Click()
RatingBox.Visible = False
If RatingBlock = "none" Then
RatingOption(0).Value = True
ElseIf RatingBlock = "PG" Then
RatingOption(1).Value = True
ElseIf RatingBlock = "R" Then
RatingOption(2).Value = True
End If
End Sub

Private Sub RatingOK_Click()
Dim message As String
RatingBlock = RatingTemp
If RatingBlock = "none" Then
message = "No music "
ElseIf RatingBlock = "PG" Then
message = "PG and R rated music "
ElseIf RatingBlock = "R" Then
message = "R rated music "
End If
RatingBox.Visible = False
MsgBox (message & " will be blocked from search, display, and play.")
End Sub

Private Sub RatingOption_Click(Index As Integer)
If RatingOption(0).Value = True Then
RatingTemp = "none"
ElseIf RatingOption(1).Value = True Then
RatingTemp = "PG"
ElseIf RatingOption(2).Value = True Then
RatingTemp = "R"
Else
RatingTemp = "none"
End If
End Sub

Private Sub RatingPassword_Click()
NewPassword1 = InputBox("Please type your new password ")
If NewPassword1 = "" Then Exit Sub
NewPassword2 = InputBox("Please confirm you new password.")
If NewPassword2 = "" Then Exit Sub
If NewPassword2 = NewPassword1 Then
password = NewPassword1
MsgBox "Password changed successfully."
Else
MsgBox "Error entering new password."
End If
End Sub

```

```

Private Sub ScreenShow_Click(Index As Integer)

Dim i As Integer
On Error Resume Next
If RatingBox.Visible = True Then RatingBox.Visible = False
If (SelCat1 = "" And Index = 2) Then
MsgBox ("Please select a main category from screen 2 before viewing this screen !!!")
Exit Sub
End If

For i = 0 To 3
Screen2.ScreenShow(i).BackColor = &H8000000F
ScreenShow(i).BackColor = &H8000000F
ScreenShow(i).ForeColor = &H80000012
Next i

Select Case Index
Case 0
Screen2.DD.Group = "Screen1"
Screen2.Hide
Screen2.cat1screen.Visible = True
Screen2.cat2screen.Visible = False
Screen2.FavHitsScrn.Visible = False
For i = 0 To 4
Screen1.ScreenShow(i).BackColor = &H8000000F
Screen1.ScreenShow(Index).ForeColor = &H80000012
Next i
Screen1.ScreenShow(Index).BackColor = &HC0&
Screen1.ScreenShow(Index).ForeColor = &H8000000E
Screen1.Show
If Screen1.WindowState <> 2 Then Screen1.WindowState = 2
Exit Sub
Case 1
Screen2.DD.Group = "Screen2"
Screen2.cat1screen.Visible = True
Screen2.cat2screen.Visible = False
Screen2.FavHitsScrn.Visible = False
For i = 0 To 4
Screen2.ScreenShow(i).BackColor = &H8000000F
Screen2.ScreenShow(Index).ForeColor = &H80000012
Next i
Screen2.ScreenShow(Index).BackColor = &HC0&
Screen2.ScreenShow(Index).ForeColor = &H8000000E
Screen2.Show
If Screen2.WindowState <> 2 Then Screen2.WindowState = 2
Exit Sub
Case 2
Screen2.DD.Group = "Screen2"
SelCat1 = MemCat
Screen2.cat1screen.Visible = False
Screen2.cat2screen.Visible = True
Screen2.FavHitsScrn.Visible = False
For i = 0 To 4
Screen2.ScreenShow(i).BackColor = &H8000000F

```

```

        Screen2.ScreenShow(Index).ForeColor = &H80000012
    Next i
    Screen2.ScreenShow(Index).BackColor = &HC0&
    Screen2.ScreenShow(Index).ForeColor = &H8000000E
    Screen2.Show
    If Screen2.WindowState <> 2 Then Screen2.WindowState = 2
    Exit Sub
Case 3
    Screen2.DD.Group = "Screen4"
    Recorder.ScreenShow(Index).BackColor = &HC0&
    Recorder.ScreenShow(Index).ForeColor = &H8000000E
    Screen1.Hide
    Screen2.Hide
    Recorder.Show
    If Recorder.WindowState <> 2 Then Recorder.WindowState = 2

    Recorder.Refresh
    Screen2.cat1screen.Visible = True
    Screen2.cat2screen.Visible = False
    Screen2.FavHitsScrn.Visible = False

End Select
End Sub

Private Sub SearchAgain_Click()
    response = MsgBox("Are you sure you want to Reset the Library Display?" & Chr(13) & "Any music playing will be automatically
    paused.", 4)
    If response = vbNo Then
        Exit Sub
    Else
        If RatingBox.Visible = True Then RatingBox.Visible = False
        If SongPlaying = True And Screen1.wp.LinkMode <> LINK_NONE Then
            Screen1.wp.LinkExecute "pause"
            PauseList = True
        End If
        Load choices
        choices.Show 1
        If CancellLibrary = True Then
            CancellLibrary = False
            Screen2.Show
            Screen2.SetFocus
        End Sub

    End If
    StoplistingList = False
    UpdateList
End If
End Sub

Private Sub StopListUpdate_Click()
    StoplistingList = True
    If RatingBox.Visible = True Then RatingBox.Visible = False

```

```

If Screen1.wp.LinkMode <> LINK_NONE And PauseList = True Then
    Screen1.wp.LinkExecute "pause"
    PauseList = False
End If

```

```
End Sub
```

```
"Loader.frm"
```

```
Private Sub Form_Activate()
```

```
    Dim ftime, wtime As Integer
```

```
    Loader.Refresh
```

```
    MousePointer = 11
```

```
    ftime = Timer()
```

```
    wtime = 0
```

```
    App.HelpFile = App.Path & "\mohelp.hlp"
```

```
    Load titlefrm
```

```
    titlefrm.Animation1.AutoPlay = True
```

```
    titlefrm.Animation2.AutoPlay = True
```

```
    titlefrm.Animation1.Open App.Path & "\cd1a.avi"
```

```
    titlefrm.Animation2.Open App.Path & "\cd1b.avi"
```

```
    titlefrm.Animation1.Play
```

```
    titlefrm.Animation2.Play
```

```
    titlefrm.MMControl1.FileName = App.Path & "\Intro.wav"
```

```
    Call titlefrm.Main
```

```
    touchscreen = True
```

```
    Do While wtime < 10
```

```
        wtime = Timer() - ftime
```

```
        DoEvents
```

```
    Loop
```

```
    titlefrm.Show
```

```
    Loader.Hide
```

```
    MousePointer = 0
```

```
    Unload Loader
```

```
End Sub
```

```
"choices.frm"
```

```
Private Sub Form_Load()
```

```
    DisplayLibrary = False
```

```
End Sub
```

```
Private Sub OKButton_Click(Index As Integer)
```

```
    If Index = 1 Then
```

```
        CancelLibrary = True
```

```
    End If
```

```
    Unload choices
```

```
End Sub
```

```
Private Sub Option1_Click()
```

```
    DisplayLibrary = False
```

```

Recorder.Title.Caption = " Current Music You Own"
End Sub

Private Sub Option2_Click()
DisplayLibrary = True
Recorder.Title.Caption = "The Complete MOAEC Music Library"
End Sub

"Screen1.frm"
Private Declare Function mciSendCommandA Lib "WinMM" _
(ByVal wDeviceID As Long, ByVal message As Long, _
ByVal dwParam1 As Long, dwParam2 As Any) As Long

Private Declare Function mciSendStringA Lib "WinMM" _
(ByVal mciCommand As String, ByVal returnStr As String, _
ByVal returnLength As Integer, ByVal callBack As Integer) As Long

Private Declare Function GetProfileString Lib "kernel32" _
Alias "GetProfileStringA" (ByVal lpAppName As String, _
ByVal lpKeyName As String, ByVal lpDefault As String, _
ByVal lpReturnedString As String, ByVal nSize As Long) As Long

Const MCI_OPEN = &H803
Const MCI_CLOSE = &H804
Const MCI_PLAY = &H806
Const MCI_OPEN_TYPE = &H200&
Const MCI_OPEN_ELEMENT = &H200&
Const MCI_WAIT = &H2&

Private Type MCI_WAVE_OPEN_PARMS
dwCallback As Long
wDeviceID As Long
lpstrDeviceType As String
lpstrElementName As String
lpstrAlias As String
dwBufferSeconds As Long
End Type

Private Type MCI_PLAY_PARMS
dwCallback As Long
dwFrom As Long
dwTo As Long
End Type

Private Function StartApp(appname As String) As Long
On Error Resume Next

StartApp = (Shell(appname))
DoEvents

```

```

If StartApp = 0 Then
    MsgBox "Couldn't start " & appname
    'StartApp = 0
'End
End If
End Function
Private Function CreateLink() As Integer

```

```

On Error Resume Next

```

```

' set DDE parameter
wp.LinkMode = NONE
wp.LinkItem = ""

```

```

wp.LinkTopic = "WinPlay3 audio"
wp.LinkMode = LINK_MANUAL
tmp = Err

```

```

If (tmp = 0) Then
    WinPlayConnected = 1
Else
    WinPlayConnected = 0
End If

```

```

CreateLink = tmp

```

```

End Function

```

```

Sub AdjustVolume(SliderNum As Integer)

```

```

Dim newvolume As Long
Dim first As Integer
Dim other As Integer
Dim leftVol As Long
Dim RightVol As Long
Dim fadevalue As Variant

```

```

If ((SliderNum = 0 Or SliderNum = 1) And channel = 1) Or ((SliderNum = 2 Or SliderNum = 3) And channel = 2) Then
If (channel = 1 And mixerbar.Value < 0) Or (channel = 2 And mixerbar.Value > 0) Then
    fadevalue = Abs(mixerbar.Value) / 100
    If fadevalue < 0.5 Then fadevalue = 0
End If

```

```

If SliderNum = 0 Or SliderNum = 1 Then
    first = 1
    other = 0

```

```

ElseIf SliderNum = 2 Or SliderNum = 3 Then
    first = 3
    other = 2
End If

```

```

If SliderNum = first Or SliderNum = other Then

```

```

Text2.Text = oldvolume
leftVol = CLng(Val("&H" & Hex(volumesldr(other).Value)) - 1)
RightVol = CLng(Val("&H" & Hex(fadevalue * (65535 - volumesldr(first).Value)) & Hex(fadevalue * (65535 -
volumesldr(other).Value))))
newvolume = RightVol
Call waveOutSetVolume(VolumeID, newvolume)
End If
End If
End Sub

```

```

Sub Playwave(WaveFile As Variant, songlength As Double)

```

```

Dim Ltime As Long
Dim Y As Long
'Dim X As Long
Dim errorCode As Integer
Dim returnStr As Integer
Dim errorStr As String * 255
Dim MaxMsecs As Double
Dim volumecode As Long
Dim pitch As Long
Dim mixinc As Integer
Dim count As Double
Dim PiggyBack As Double
Dim checker As Integer

```

```

On Error GoTo errorhandler

```

```

play(channel).Enabled = True
pause(channel).Enabled = True
Screen1.stop(channel).Enabled = True
Screen1.stop(OtherChannel).Enabled = False
wp.LinkExecute "set PlayList " & WaveFile
Ltime = Timer()
X = 0
Do While X < 5
    X = Timer() - Ltime
Loop
wp.LinkExecute "play"
StopList = False
If channel = 1 Then other = 0
If channel = 2 Then other = 3

```

```

PlayLab(channel).Visible = True
Quelab(channel).Visible = False
If channel = 1 Then mixerbar.Value = -100
If channel = 2 Then mixerbar.Value = 100
NewPauseStartTime = Timer()
X = 0

```

```

Do While X < TimeSerial(0, 0, songlength)

```

```

DoEvents

```

```

If Timer() > AutoExitTime - 30 And Timer() < AutoExitTime - 27 And AutoExitEvent = True Then

```

```

MsgBox ("MOAEC WILL SHUT DOWN IN 30 SECONDS !!!" & Chr(13) & " Press CANCEL to prevent auto exit.")

```

```

End If

```

```

If Timer() > AutoExitTime And AutoExitEvent = True Then
    'SendKeys "{enter}"
    EndIfAll
    'Call ExitWindows(&H0, &H0)
End If
If PauseList = True Then
    NewPauseStartTime = Timer() - TimeSoFar
End If
If PauseList = False Then
    nexttrack(1).Enabled = True
    prevtrack(1).Enabled = True
    nexttrack(2).Enabled = True
    prevtrack(2).Enabled = True
    TimeSoFar = Timer() - NewPauseStartTime
    Let X = TimeSerial(0, 0, (TimeSoFar))
    TimeElapsed(channel).Text = Format(TimeSerial(0, 0, SongsTime + songlength) - X, "hh:mm:ss")
    Text1(channel).Text = Format(TimeSerial(0, 0, songlength) - X, "hh:mm:ss")
    Screen2.timebox.Text = Format(TimeSerial(0, 0, SongsTime + songlength) - X, "hh:mm:ss")
End If

If StopList = True Then
    X = TimeSerial(0, 0, 0)
    NewPauseStartTime = Timer()
    If PrevTrackVar = True Then
        PrevTrackVar = False
        StopList = False
        wp.LinkExecute "play"
    End If
End If
If NextTrackVar = True Then
    X = TimeSerial(0, 0, songlength)
    NextTrackVar = False
End If

Loop

PlayLab(channel).Visible = False
QueLab(channel).Visible = True

Exit Sub
errorhandler:
    MsgBox ("Sorry....There was a problem playing this music selection.")
End Sub

Private Sub eject_Click()
    Dim files As String
    Dim n As Integer

    If wp.LinkMode <> LINK_NONE Then
        On Error Resume Next
        fileopendlg.Action = 1
    End If

```

End Sub

```
Private Sub Command1_Click()
    If wp.LinkMode <> LINK_NONE Then
        wp.LinkExecute "dialog options output"
    End If
End Sub
```

```
Private Sub AutoExit_Click()
```

```
    On Error GoTo endsub
    If AutoExit.Caption = "CANCEL" Then
        response = MsgBox("Are you sure you want to cancel auto shutdown?", 4)
        If response = vbNo Then
            Exit Sub
        Else
            AutoExitEvent = False
            AutoExit.Caption = "AUTO EXIT"
        End If
    Else
        If SongPlaying = False Then Exit Sub
        response = MsgBox("Are you sure you want to set MOAEC to shut down automatically?", 4)
        If response = vbNo Then
            Exit Sub
        Else
            AutoExit.Caption = "CANCEL"
            TimeFrame.Visible = True
            keyboard.Visible = True
            TimeInput.SetFocus
        End If
    End If
endsub:
End Sub
```

```
Private Sub backup_Click()
    If TimeInput.Visible = True Then
```

```
        TimeInput.SetFocus
        SendKeys "{end}"
        SendKeys "{backspace}"
        SendKeys "{tab}"
    End If
End Sub
```

```
Private Sub CurrentSongExpanded_Click(Index As Integer)
    CurrentSongExpanded(Index).Visible = False
End Sub
```

```
Private Sub cursong_click(Index As Integer)
```

```

    CurrentSongExpanded(Index).Visible = True
End Sub

Private Sub ENTERKEY_Click()
If TimeInput.Visible = True Then

    TimeOK.SetFocus
    SendKeys "{enter}"
End If
End Sub

Private Sub ExitSystem_Click()
    response = MsgBox("Are you sure you want to exit the system?", 4)
    If response = vbNo Then
        Exit Sub
    Else
        ExitButtonPushed = True
        EndItAll
    End If
End Sub

Private Sub Form_GotFocus()
    On Error Resume Next
    Screen2.DD.Group = "Screen1"
End Sub

Public Sub Form_Load()
    Dim oldvolume As Long
    Dim oldrate As Long
    Dim newvolume As Long
    Dim VolumePoint As Long
    Dim volume/D As Long
    Dim volumecode As Long

    Dim tmp As String * 256
    Dim WinPlay3Name As String
    Dim n As Integer
    StoplistingList = True
    Screen1.WindowState = 2
    automix = True
    NextTrackVar = False
    AutoExitEvent = False
    volinc(0) = Master(0).Value
    volinc(1) = Master(1).Value
    ' Open DDE connection with WinPlay3
    If CreateLink() <> NONE Then

        ' get path to winplay3 from win.ini
        n = GetProfileString("WinPlay3", "ProgramFile", "WinPlay3.Exe", tmp, 256)
        WinPlay3Name = Left$(tmp, n)
        If StartApp(WinPlay3Name & " /DDE") Then
            Select Case CreateLink()
            Case 0
                ' dde server started

```

```

        Case NO_APP_RESPONDED
            MsgBox "Sorry, still can't connect."
        End Select
    End If

End If

Call waveOutGetID(VolumeHandle, VolumeID)
Call waveOutGetVolume(VolumeID, oldvolume)

PlaySpeed(0).Value = oldvolume
PlaySpeed(1).Value = oldvolume

Master(0).Value = 49000
Master(1).Value = 49000
volumesldr(8).Value = 49000
volumesldr(9).Value = 49000
For i = 4 To 5
    volumesldr(i).Value = 49000
Next i
For i = 0 To 3
    volumesldr(i).Value = 49000
Next i
mixerbar.Value = 100
Call waveOutSetVolume(VolumeID, CLng(Val("&H" & Hex(16000) & Hex(16000))))
PlaySpeed(0).Value = 5
PlaySpeed(1).Value = 5

End Sub

Private Sub Form_Resize()
    On Error Resume Next
    If WindowState = 2 Then
        For X = 1 To 4
            ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
        Next X
        For X = 0 To 4
            ScreenShow(X).Top = Screen.Height - 1155
        Next X
        ExitSystem.Top = Screen.Height - 1155
        Label10.Top = Screen.Height - 1155
    Else
        For X = 1 To 4
            ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
        Next X
        For X = 0 To 4
            ScreenShow(X).Top = Screen1.Height - 1155
        Next X
        ExitSystem.Top = Screen1.Height - 1155
        Label10.Top = Screen1.Height - 1155
    End If
End Sub

```

```

End If
Label10.Left = Screen1.Width - 1455
ExitSystem.Left = 120
Channel1(1).Left = (Screen1.Width / 2) + 8
Channel1(3).Left = (Screen1.Width / 2) + 8
Picture1.Width = Screen1.Width - 460
Picture1.Top = Screen1.Height - 3255
For X = 0 To 3
    Channel1(X).Width = (Screen1.Width / 2) - 353
Next X
For X = 0 To 1
    PlaySpeed(X).Left = (Channel1(0).Width / 2) - 1200
Next X
Label3(0).Left = PlaySpeed(0).Left + 720
Label3(1).Left = PlaySpeed(0).Left - 600
Label3(3).Left = PlaySpeed(0).Left + 720
Label3(4).Left = PlaySpeed(0).Left - 600
Label3(2).Left = PlaySpeed(0).Left + 2520
Label3(5).Left = PlaySpeed(0).Left + 2520
Label4(0).Left = PlaySpeed(0).Left + 720
Label4(1).Left = PlaySpeed(0).Left - 720

For X = 1 To 2
    play(X).Left = ((Channel1(0).Width / 2) - 1425)
    Screen1.stop(X).Left = ((Channel1(0).Width / 2) - 1425) - 570
    pause(X).Left = ((Channel1(0).Width / 2) - 1425) - 1140
    prevtrack(X).Left = ((Channel1(0).Width / 2) - 1425) + 1710
    nexttrack(X).Left = ((Channel1(0).Width / 2) - 1425) - 2280
    cursong(X).Left = Channel1(i).Width - 2175
    Quelab(X).Left = cursong(i).Left
    PlayLab(X).Left = cursong(1).Left
Next X
For X = 2 To 3
    Channel1(X).Height = Screen1.Height - Channel1(0).Height - Picture1.Height - 1600
Next X
volumesldr(0).Left = 0.209 * Picture1.Width
volumesldr(1).Left = 0.267 * Picture1.Width
volumesldr(2).Left = 0.36 * Picture1.Width
volumesldr(3).Left = 0.418 * Picture1.Width
volumesldr(4).Left = 0.6734 * Picture1.Width
volumesldr(5).Left = 0.7315 * Picture1.Width
volumesldr(8).Left = 0.8128 * Picture1.Width
volumesldr(9).Left = 0.894 * Picture1.Width
Master(0).Left = 0.5225 * Picture1.Width
Master(1).Left = 0.5806 * Picture1.Width
Label1(1).Left = volumesldr(0).Left + 120
Label1(2).Left = volumesldr(2).Left + 120
Label1(4).Left = volumesldr(4).Left + 120
Label1(5).Left = volumesldr(8).Left + 120
Label1(6).Left = volumesldr(9).Left + 120
Label1(3).Left = Master(0).Left + 120

```

```

AutoExit.Top = ExitSystem.Top
For X = 1 To 2
    CurrentSongExpanded(X).Left = (Screen1.Width / 2) - 5408
Next X
EQ1(0).Top = (Channel1(2).Height / 2) - 100
EQ1(1).Top = (Channel1(2).Height / 2) - 100
EQ1(0).Left = (Channel1(2).Width / 2) - 2280
EQ1(1).Left = (Channel1(2).Width / 2) - 2280
End Sub

```

```

Private Sub Form_Unload(Cancel As Integer)
    If wp.LinkMode <> LINK_NONE Then
        wp.LinkExecute "stop"
        wp.LinkExecute "exit"
    End If
    WinPlay3Connected = 0
    wp.LinkMode = LINK_NONE

    EndItAll

```

```
End Sub
```

```

Private Sub Label10_Click()
    SendKeys "{F1}"
End Sub

```

```

Private Sub Letters_Click(Index As Integer)
    'type the letter pressed in the text field
    If TimeInput.Visible = True Then
        TimeInput.SetFocus
        SendKeys LCase(Letters(Index).Caption)
        SendKeys "{tab}"
    End If
End Sub

```

```
Private Sub Master_Click(Index As Integer)
```

```

    volinc(0) = Master(0).Value
    volinc(1) = Master(1).Value

```

```
End Sub
```

```
Private Sub Master_Scroll(Index As Integer)
```

```

    Dim volinc2(2) As Long
    volinc2(Index) = Master(Index).Value - volinc(Index)

```

```
Select Case Index
```

```
Case 0
```

```

    volumesldr(0).Value = OrigVol(0) + volinc2(0)
    volumesldr(2).Value = OrigVol(2) + volinc2(0)
    volumesldr(4).Value = OrigVol(4) + volinc2(0)

```

```

Case 1
    volumesldr(1).Value = OrigVol(1) + volinc2(1)
    volumesldr(3).Value = OrigVol(3) + volinc2(1)
    volumesldr(5).Value = OrigVol(5) + volinc2(1)

End Select
volinc(Index) = Master(Index).Value

End Sub

Private Sub mixerbar_Change()

    If (mixerbar.Value <= 0 And channel = 1) Then
        AdjustVolume (1)
    ElseIf (mixerbar.Value >= 0 And channel = 2) Then
        AdjustVolume (2)
    End If

End Sub

Private Sub mixerbar_Scroll()

    If (mixerbar.Value <= 0 And channel = 1) Then
        AdjustVolume (1)
    ElseIf (mixerbar.Value >= 0 And channel = 2) Then
        AdjustVolume (2)
    End If

End Sub

Private Sub MixFade_Click()
    If MixFade.Caption = "AUTO MIX OFF" Then
        MixFade.Caption = "AUTO MIX ON"
        automix = True
    Else
        MixFade.Caption = "AUTO MIX OFF"
        automix = False
    End If
End Sub

Private Sub nexttrack_Click(Index As Integer)
    If index = channel Then
        If wp.LinkMode <> LINK_NONE Then
            response = MsgBox("Are you sure you want to skip to the next song?", 4)
            If response = vbNo Then
                Exit Sub
            Else
                NextTrackVar = True
            End If
        End If
    End If
End Sub

```

```

Private Sub pause_Click(Index As Integer)
If channel = Index Then
If StoplistingList = False Then
MsgBox ("Your library is still updating!" & Chr(13) & "Please switch to Screen 4 to resume play.")
Exit Sub
End If
If wp.LinkMode <> LINK_NONE Then
wp.LinkExecute "pause"
If PauseList = True Then
PauseList = False
Else
PauseList = True
End If
End If
End If
End Sub

```

```

Private Sub play_Click(Index As Integer)

If wp.LinkMode <> LINK_NONE Then
If Index = OtherChannel And StopList = True Then
NextTrackVar = True
ElseIf Index = channel Then
PauseList = False
wp.LinkExecute "play"
StopList = False
End If
End If
End Sub

```

```

Private Sub PlaySpeed_Scroll(Index As Integer)
Dim oldrate As Long
Dim volumecode As Long
Dim newrate As Long
End Sub

```

```

Private Sub RestartMus_Click()
Dim SoundCom As Long

SoundCom = waveOutRestart(VolumeID)
Text2.Text = SoundCom

End Sub

```

```

Private Sub prevtrack_Click(Index As Integer)
If channel = Index Then
If wp.LinkMode <> LINK_NONE Then
wp.LinkExecute "stop"
StopList = True
PauseList = False
PrevTrackVar = True

```

```

End If
End If
End Sub

```

```

Private Sub ScreenShow_Click(Index As Integer)
Dim i As Integer
On Error Resume Next
If (SelCat1 = "" And Index = 2) Then
MsgBox ("Please select a main category from screen 2 before viewing this screen !!!")
Exit Sub
End If
Screen2.Category(1).Visible = False
cat1count = 0
'disable speed buttons since switching to screen 3
For i = 0 To Screen2.SongSpeed.count - 1
Screen2.SongSpeed(i).Enabled = False
Screen2.SongSpeed(i).BackColor = &H8000000F
Next i
Screen2.Mix.Enabled = False
Screen2.PlayTime.Enabled = False
Screen2.Mix.BackColor = &H8000000F
Screen2.PlayTime.BackColor = &H8000000F
For i = 0 To 4
Screen2.ScreenShow(i).BackColor = &H8000000F
ScreenShow(i).BackColor = &H8000000F
ScreenShow(i).ForeColor = &H80000012
Next i
Select Case Index
Case 0
Screen2.DD.Group = "Screen1"
Screen2.Hide
Screen2.cat2screen.Visible = False
Screen2.FavHitsScrn.Visible = False
Exit Sub
Case 1
Screen2.DD.Group = "Screen2"
Screen2.cat2screen.Visible = False
Screen2.FavHitsScrn.Visible = False
For i = 0 To 4
Screen2.ScreenShow(i).BackColor = &H8000000F
Screen2.ScreenShow(Index).ForeColor = &H80000012
Next i
Screen2.ScreenShow(Index).BackColor = &HC0&
Screen2.ScreenShow(Index).ForeColor = &H8000000E
Screen2.Show
If Screen2.WindowState <> 2 Then Screen2.WindowState = 2
Exit Sub
Case 2
If IsDDWinRunning() Then Screen2.DD.Group = "Screen2"

```

```

SelCat1 = MemCat
Screen2.cat2screen.Visible = True
Screen2.FavHitsScrn.Visible = False
For i = 0 To 4
    Screen2.ScreenShow(i).BackColor = &H8000000F
    Screen2.ScreenShow(Index).ForeColor = &H80000012
Next i
Screen2.ScreenShow(Index).BackColor = &HC0&
Screen2.ScreenShow(Index).ForeColor = &H8000000E
Screen2.Show
    If Screen2.WindowState <> 2 Then Screen2.WindowState = 2

Exit Sub
Case 3
Screen2.DD.Group = "Screen4"
Recorder.ScreenShow(Index).BackColor = &HC0&
Recorder.ScreenShow(Index).ForeColor = &H8000000E
Screen1.Hide
Screen2.Hide
Recorder.Show
    If Recorder.WindowState <> 2 Then Recorder.WindowState = 2

Recorder.Refresh
Screen2.cat2screen.Visible = False
Screen2.FavHitsScrn.Visible = False
End Select

make the button pressed the right color

End Sub

Private Sub stop_Click(Index As Integer)
    If channel = Index Then
        If wp.Link.Mode <> LINK_NONE Then
            wp.LinkExecute "stop"
            StopList = True
            play(OtherChannel).Enabled = True
        End If
    End If
End Sub

Private Sub undo_Click()

End Sub

Private Sub TimeCancel_Click()
    TimeFrame.Visible = False
    keyboard.Visible = False
End Sub

Private Sub TimeOK_Click()
    Dim Timer1 As Long

```

```

Dim timer2 As Long
On Error GoTo endsub
If Val(TimeInput.Text) <> 0 Then
    AutoExitStart = Timer()
    AutoExitTime = AutoExitStart + (Val(TimeInput.Text) * 60)
    AutoExitEvent = True
End If
TimeFrame.Visible = False
keyboard.Visible = False

endsub:
End Sub

Private Sub volumesldr_Change(Index As Integer)
AdjustVolume (Index)
OrigVol(Index) = volumesldr(Index).Value

End Sub

Private Sub volumesldr_Scroll(Index As Integer)
On Error Resume Next
AdjustVolume (Index)
End Sub

Private Sub wp_LinkClose()
If WinPlay.Connected <> 0 Then

End If
wp.LinkMode = LINK_NONE
End Sub

Private Sub wp_LinkError(LinkErr As Integer)
MsgBox ("Link error")
End Sub

"screen2.frm"

Sub DD_SpeechRecognized(Word As String, WordValue As String)
Dim CurControl As Control
Dim VoiceFlag As Boolean
Dim SavedName As String

On Error GoTo errorhandler

If Word = "[classical]" Then Category1(0).SetFocus
If Word = "[jazz]" Then Category1(1).SetFocus
If Word = "[folk]" Then Category1(2).SetFocus
If Word = "[oldies]" Then Category1(3).SetFocus
If Word = "[country]" Then Category1(4).SetFocus
If Word = "[pop]" Then Category1(5).SetFocus
If Word = "[soul]" Then Category1(6).SetFocus
If Word = "[R and B]" Then Category1(7).SetFocus

```

```

If Word = "[blues]" Then Category1(8).SetFocus
If Word = "[calypso]" Then Category1(9).SetFocus
If Word = "[disco]" Then Category1(10).SetFocus
If Word = "[funk]" Then Category1(11).SetFocus
If Word = "[rock]" Then Category1(12).SetFocus
If Word = "[metal]" Then Category1(13).SetFocus
If Word = "[top 40]" Then Category1(14).SetFocus
If Word = "[rap]" Then Category1(15).SetFocus
If Word = "[reggae]" Then Category1(16).SetFocus
If Word = "[alternative]" Then Category1(17).SetFocus
If Word = "[ethnic]" Then Category1(18).SetFocus
If Word = "[religion]" Then Category1(19).SetFocus
If Word = "[special events]" Then Category1(20).SetFocus
If Word = "[funny]" Then Category1(21).SetFocus
If Word = "[easy listening]" Then Category1(22).SetFocus
If Word = "[favorite hits]" Then Category1(23).SetFocus
If Word = "[special dance]" Then Category1(24).SetFocus
If Word = "[special mixes]" Then Category1(25).SetFocus
If Word = "[dance]" Then Category1(26).SetFocus
If Word = "[energy]" Then Category1(27).SetFocus
If Word = "[sound effects]" Then Category1(28).SetFocus
If Word = "[sound tracks]" Then Category1(29).SetFocus
If Word = "[television]" Then Category1(30).SetFocus

If Word = "[Dance Mix]" Then Mix.SetFocus
If Word = "[Clear]" Then ClrSrch.SetFocus
If Word = "[Undo]" Then undo.SetFocus

If Word = "[Search List]" Then searchlist.SetFocus
If Word = "[Play List]" Then Playlist(0).SetFocus
If Word = "[Search]" Then search.SetFocus
If Word = "[Expand]" And ExpandList.Caption = "EXPAND" Then
    ExpandList.SetFocus
ElseIf Word = "[Shrink]" And ExpandList.Caption = "SHRINK" Then
    ExpandList.SetFocus
End If

If Word = "[Load]" Then LoadPlay.SetFocus
If Word = "[Save]" Then SavePlay.SetFocus
If Word = "[Next]" Then AddList(0).SetFocus
If Word = "[Pick]" Then AddList(1).SetFocus
If Word = "[Delete]" Then delete.SetFocus

If Word = "[Title]" Then SearchCat(1).SetFocus
If Word = "[Artist]" Then SearchCat(2).SetFocus
If Word = "[Date]" Then SearchCat(3).SetFocus
If Word = "[Song Category]" Then SearchCat(4).SetFocus
If Word = "[Dance Type]" Then SearchCat(6).SetFocus
If Word = "[Music Style]" Then SearchCat(5).SetFocus
If Word = "[Speed]" And SearchCat(1).Enabled = True Then SearchCat(7).SetFocus
If Word = "[Energy]" Then SearchCat(8).SetFocus

If Word = "[Speed]" And AllSpeeds.Enabled = True Then AllSpeeds.SetFocus
If Word = "[Fast]" And SongSpeed(0).Enabled = True Then SongSpeed(0).SetFocus

```

```

'If Word = "[Fast]" Then SongSpeed(0).SetFocus
'If Word = "[Medium]" And SongSpeed(1).Enabled = True Then SongSpeed(1).SetFocus
'If Word = "[Slow]" And SongSpeed(2).Enabled = True Then SongSpeed(2).SetFocus
'If Word = "[Time]" And PlayTime.Enabled = True Then PlayTime.SetFocus
'If Word = "[30]" Then
    TimeInput.SetFocus
    TimeInput.Text = 30
End If
'If Word = "[OK]" And timebox.Visible = True Then TimeOK.SetFocus
'If Word = "[Begin Search]" And SearchScreen.Visible = True Then BeginSearch.SetFocus
'If Word = "[Cancel]" And timebox.Visible = True Then TimeCancel.SetFocus
'If Word = "[Cancel]" And SearchScreen.Visible = True Then Cancel.SetFocus
'If Word = "[Cancel]" And cat2screen.Visible = True Then CancelSubScreen.SetFocus
'If word = "[minutes]" Then Text2.SetFocus
'If Word = "[Play]" Then PlayButton.SetFocus
'If Word = "[Now]" Then Now.SetFocus

'If word = "[screen 1]" Then ScreenShow(0).SetFocus
'If word = "[screen 2]" Then ScreenShow(1).SetFocus
'If word = "[screen 3]" Then ScreenShow(2).SetFocus
'If word = "[screen 4]" Then ScreenShow(3).SetFocus
SendKeys " "

errorhandler:
Exit Sub
End Sub
Sub GrayOut()
'disable and gray out speed, mix, and time buttons
Mix.Enabled = False
AllSpeeds.Visible = True
AllSpeeds.Enabled = False
PlayTime.Enabled = False
Mix.BackColor = &H8000000F
AllSpeeds.BackColor = &H8000000F
PlayTime.BackColor = &H8000000F
For i = 0 To SongSpeed.count - 1
    SongSpeed(i).Enabled = False
    SongSpeed(i).BackColor = &H8000000F
Next i
End Sub
Sub LoadNewSong(Songfile As String)
Dim memHandle As Long
Dim memPointer As Long
Dim fileName As String
Dim retValue As Long
Dim nBytes As Long
Dim fileSize As Long

Dim origStr As String
Dim strSize As Long
Dim textStr As String

On Error GoTo noFilename

```

```

fileName = Songfile
FilePointer = CreateFile(fileName, GENERIC_READ Or GENERIC_WRITE, 0&, 0&, OPEN_EXISTING,
FILE_ATTRIBUTE_NORMAL, 0&)
fileSize = GetFileSize(FilePointer, 0)
memHandle = GlobalAlloc(GMEM_MOVEABLE Or GMEM_ZEROINIT, fileSize)
memPointer = GlobalLock(memHandle)
retValue = ReadFile(FilePointer, ByVal memPointer, fileSize, nBytes, 0&)

Call Screen1.Playwave(fileName, songlength)
CloseHandle (FilePointer)
GlobalUnlock (memHandle)
GlobalFree (memHandle)
Exit Sub

noFilename:

End Sub
Sub StartPlay(row As Integer, list As Integer)
Dim song, songlength2 As String
Dim i, j As Integer
Dim CurControl As MSFlexGrid
'Dim OtherChannel As Integer
On Error GoTo errorhandler
If list = 1 Then
Set CurControl = searchlist
ElseIf list = 2 Then
Set CurControl = Playlist(0)
End If
StopList = False
If (CurControl.Name = Playlist(0).Name And Playlist(0).Rows > 1) Or CurControl.Name = searchlist.Name Then
If SongPlaying = True Then
answer = MsgBox("Are you sure you want to interrupt the current song ?", 4, "Interrupt Song Playing")
If answer = vbNo Then
Exit Sub
Else
If channel = 1 Then
channel = 2
OtherChannel = 1
ElseIf channel = 2 Then
channel = 1
OtherChannel = 2
End If
End If

End If
End If

Mix.Enabled = False
'switch to s1
Screen1.Show

```

```

Screen1.Refresh
Screen2.Hide

If Playlist(0).Rows > 1 Then
    Playlist(0).Col = 1
    Playlist(1).Col = 1
    Playlist(0).ColSel = 2
    Playlist(1).ColSel = 8
End If
'build the songlist array from the play list

'find the song from the play list

'disable mix button
If CurControl.Name = searchlist.Name Then
If searchlist.RowSel > 0 Then
    searchlist.BackColorSel = searchlist.CellBackColor
    searchlist.ForeColorSel = searchlist.CellForeColor
    For i = 0 To 8
        selsong(i) = searchlist.TextMatrix(searchlist.row, i)
    Next i
    Playlist(0).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2)
    Playlist(1).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2)
    'Add a song to the total to be played
    NumSongs.Text = PlaySongs
    'Add the song time to the play time box
End If
End If
'begin playing song list
Do Until Playlist(0).Rows < 2
    undo.Enabled = False
    For j = 0 To 4
        ScreenShow(j).BackColor = &H8000000F
        ScreenShow(j).ForeColor = &H80000012
        Screen1.ScreenShow(j).BackColor = &H8000000F
        Screen1.ScreenShow(j).ForeColor = &H80000012
    Next j
    Screen1.ScreenShow(0).BackColor = &HC0&
    Screen1.ScreenShow(0).ForeColor = &H8000000E

Screen1.Refresh

If Playlist(0).Rows > 1 Then
    CurControl.row = row
    If channel = 1 Then OtherChannel = 2
    If channel = 2 Then OtherChannel = 1
    Screen1.PlayLab(OtherChannel).Visible = False
    Screen1.Quelab(OtherChannel).Visible = True
'find the first song to be played

```

```

'if the song was already on deck then play it
Data1.Refresh
Data1.Recordset.MoveLast
Data1.Recordset.MoveFirst
Data1.Recordset.FindFirst "Title = " & CurControl.TextMatrix(row, 1) & " and Artist = " & CurControl.TextMatrix(row, 2) &
""

If IsNull(Data1.Recordset.Fields("ID")) Then
    MsgBox ("There was a problem finding your song file on disk.")

Else
    songlist = "c:\Progra~1\moaec\895.mpg"
    'songlist = "C:\Progra~1\moaec\" & Data1.Recordset.Fields("ID") & ".mpg"
    'songlist = "c:\windows\media\tada.wav"
    songlist = "e:" & Data1.Recordset.Fields("ID") & ".mpg"

End If

songlength = Val(CurControl.TextMatrix(row, 0)) - 2
Screen1.cursong(channel).Text = CurControl.TextMatrix(row, 1)
CurControl.Col = 1
Screen1.cursong(channel).BackColor = CurControl.CellBackColor
Screen1.Text1(channel).Text = Format(TimeSerial(0, 0, songlength), "hh:mm:ss")
If CurControl.Name = Playlist(0).Name Then
    For X = 0 To 8
        Screen1.CurrentSongExpanded(channel).TextMatrix(1, X) = Playlist(1).TextMatrix(row, X)
        Screen1.CurrentSongExpanded(channel).CellBackColor = Playlist(1).CellBackColor
        Screen1.CurrentSongExpanded(channel).BackColorSel = Playlist(1).CellBackColor
        Screen1.CurrentSongExpanded(channel).ForeColorSel = Playlist(1).CellForeColor
    Next X
Else
    For X = 0 To 8
        Screen1.CurrentSongExpanded(channel).TextMatrix(1, X) = CurControl.TextMatrix(row, X)
        Screen1.CurrentSongExpanded(channel).CellBackColor = CurControl.CellBackColor
        Screen1.CurrentSongExpanded(channel).BackColorSel = CurControl.CellBackColor
        Screen1.CurrentSongExpanded(channel).ForeColorSel = CurControl.CellForeColor
    Next X
End If
Data1.Recordset.Close
If (CurControl.Name = Playlist(0).Name And Playlist(0).Rows > 2) Or CurControl.Name = searchlist.Name Then
    If (CurControl.Name = Playlist(0).Name And row < 1) Or CurControl.Name = searchlist.Name Then
        Playlist(0).row = 1
        Playlist(1).row = 1
    Else
        Playlist(0).row = 2
        Playlist(1).row = 2
    End If
songlength2 = Val(Playlist(0).TextMatrix(Playlist(0).row, 0))
Screen1.cursong(OtherChannel).Text = Playlist(0).TextMatrix(Playlist(0).row, 1)
Playlist(0).Col = 1
Screen1.cursong(OtherChannel).BackColor = Playlist(0).CellBackColor
Screen1.Text1(OtherChannel).Text = Format(TimeSerial(0, 0, songlength2), "hh:mm:ss")
Screen1.TimeElapsed(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")

```

**MOAEC MASTER CODE** (page 27)

Sunspot Software and Graphics  
303-805-7637

```

For X = 0 To 8
  Screen1.CurrentSongExpanded(OtherChannel).TextMatrix(1, X) = Playlist(1).TextMatrix(Playlist(0).row, X)
  Screen1.CurrentSongExpanded(OtherChannel).CellBackColor = Playlist(1).CellBackColor
  Screen1.CurrentSongExpanded(OtherChannel).BackColorSel = Playlist(1).CellBackColor
  Screen1.CurrentSongExpanded(OtherChannel).ForeColorSel = Playlist(1).CellForeColor
Next X

```

```

Else
  songlist2 = ""
  Screen1.cursong(OtherChannel).Text = ""
  Screen1.cursong(OtherChannel).BackColor = &H8000009
  Screen1.Text1(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
  Screen1.TimeElapsed(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
End If

```

```

If CurControl.Name = searchlist.Name Then SongsTime = SongsTime + CLng(Val(CurControl.TextMatrix(row, 0)))
SongsTime = SongsTime - CLng(Val(CurControl.TextMatrix(row, 0)))
timebox.Text = Format(TimeSerial(0, 0, CLng(SongsTime)), "hh:mm:ss")

```

```

If Playlist(0).Rows > 2 Then
  If CurControl.Name = Playlist(0).Name And row <> 1 Then
    Playlist(0).row = row
    Playlist(1).row = row
  ElseIf CurControl.Name = searchlist.Name Then
    Playlist(0).row = Playlist(0).Rows - 1
    Playlist(1).row = Playlist(0).Rows - 1
  Else
    Playlist(0).row = 1
    Playlist(1).row = 1
  End If
  Playlist(1).RemoveItem(Playlist(0).row)
  Playlist(0).RemoveItem(Playlist(0).row)
Else
  Playlist(0).Clear
  Playlist(1).Clear
  Playlist(0).Rows = 1
  Playlist(1).Rows = 1
  Playlist(0).Col = 1
  Playlist(1).Col = 1
  Playlist(0).ColSel = 2
  Playlist(1).ColSel = 8
  Playlist(0).CellBackColor = Playlist(0).BackColorFixed
  Call FormatHeaders
End If
If CurControl.Name = searchlist.Name Then PlaySongs = PlaySongs + 1
PlaySongs = PlaySongs - 1
NumSongs.Text = PlaySongs
Playlist(0).Col = 1
Playlist(1).Col = 1
Playlist(0).ColSel = 2
Playlist(1).ColSel = 8

```

```

Playlist(0).BackColorSel = Playlist(0).CellBackColor
Playlist(0).ForeColorSel = Playlist(0).CellForeColor
Playlist(1).BackColorSel = Playlist(0).CellBackColor
Playlist(1).ForeColorSel = Playlist(0).CellForeColor
SongPlaying = True
Call Screen1.Playwave(songlist, songlength)
If CurControl.Name = searchlist.Name Then Set CurControl = Playlist(0)
row = 1

If channel = 1 Then
    channel = 2
    OtherChannel = 1
Else
    channel = 1
    OtherChannel = 2
End If
SongPlaying = False

End If
Loop
Else
    StopList = True
End If

Clearall:
SongsTime = 0
Playlist(0).Col = 1
Playlist(1).Col = 1
Playlist(0).ColSel = 2
Playlist(1).ColSel = 8
timebox.Text = Format(TimeSerial(0, 0, CLng(SongsTime)), "hh:mm:ss")
Playlist(0).Clear
Playlist(0).Rows = 1
Call FormatHeaders
Playlist(0).BackColorSel = Playlist(0).BackColorFixed
Playlist(0).ForeColorSel = Playlist(0).ForeColorFixed
Playlist(1).Clear
Playlist(1).Rows = 1
Playlist(1).BackColorSel = Playlist(1).BackColorFixed
Playlist(1).ForeColorSel = Playlist(1).ForeColorFixed
searchlist.BackColorSel = &H80000008
searchlist.ForeColorSel = &H8000000E
PlaySongs = 0
NumSongs.Text = "0"
Screen1.cursong(channel).Text = ""
Screen1.cursong(channel).BackColor = &H80000009

Screen1.Text1(channel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
Screen1.TimeElapsed(channel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
Screen1.cursong(OtherChannel).Text = ""
Screen1.cursong(OtherChannel).BackColor = &H80000009

Screen1.Text1(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
Screen1.TimeElapsed(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")

```

```

Now.Enabled = False
PlayButton.Enabled = False
Now.BackColor = &H8000000F
PlayButton.BackColor = &H8000000F

```

Exit Sub

errorhandler:

```

MsgBox "There was a problem finding your selected song file."
SongPlaying = False

```

End Sub

Sub RestoreSearchList()

```
CurRow2 = 1
```

```
CurRow1 = 1
```

```
CurCol = 0
```

```
undo.Enabled = False
```

```
'clear the playlists
```

```
SearchSongs = 0
```

```
searchlist.AllowBigSelection = True
```

```
searchlist.Rows = numRows
```

```
If numRows = 0 Then
```

```
ClearSearchList
```

```
ClrSrch.Enabled = False
```

```
Else
```

```
ClrSrch.Enabled = True
```

```
searchlist.row = 1
```

```
searchlist.Col = 0
```

```
searchlist.RowSel = numRows - 1
```

```
searchlist.ColSel = 8
```

```
searchlist.Clip = allCells1
```

```
For i = 1 To numRows - 1
```

```
searchlist.row = i
```

```
For k = 0 To 8
```

```
searchlist.Col = k
```

```
searchlist.CellBackColor = FileColors(i)
```

```
Next k
```

```
SearchSongs = SearchSongs + 1
```

```
Next i
```

```
searchlist.AllowBigSelection = False
```

```
searchlist.row = 1
```

```
searchlist.Col = 0
```

```
delete.Enabled = True
```

```
End If
```

```

Exit Sub

End Sub
Sub RestorePlayList()
If numRows = 0 Then
ClearPlayList
Else
CurRow2 = 1
CurRow1 = 1
CurCol = 0
undo.Enabled = False
'clear the playlists
PlaySongs = 0
SongsTime = 0
NumSongs.Text = 0
timebox.Text = Format(TimeSerial(0, 0, CLng(SongsTime)), "hh:mm:ss")
SinglePlayTime.Text = "00:00:00"
Playlist(0).AllowBigSelection = True
Playlist(1).AllowBigSelection = True
Playlist(0).Rows = numRows
Playlist(0).row = 1
Playlist(0).Col = 0
Playlist(0).RowSel = numRows - 1
Playlist(0).ColSel = 2
Playlist(1).Rows = numRows
Playlist(1).row = 1
Playlist(1).Col = 0
Playlist(1).RowSel = numRows - 1
Playlist(1).ColSel = 8
Playlist(0).Clip = allCells1
Playlist(1).Clip = allCells2
For i = 1 To numRows - 1
Playlist(0).row = i
For j = 0 To 2
Playlist(0).Col = j
Playlist(0).CellBackColor = FileColors(i)
Next j
Playlist(1).row = i
For k = 0 To 8
Playlist(1).Col = k
Playlist(1).CellBackColor = FileColors(i)
Next k
SongsTime = SongsTime + CLng(Val(Playlist(0).TextMatrix(i, 0)))
timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
PlaySongs = PlaySongs + 1
NumSongs.Text = PlaySongs
Next i
Playlist(0).AllowBigSelection = False
Playlist(1).AllowBigSelection = False
Playlist(0).row = 1
Playlist(1).row = 1
Playlist(0).Col = 0
Playlist(1).Col = 0
ExpandList.Enabled = True

```

```

delete.Enabled = True
Command1.Enabled = True
Now.Enabled = True
Now.BackColor = &HFF&
PlayButton.Enabled = True
PlayButton.BackColor = &HFF8080
RndMix.Enabled = True
SavePlay.Enabled = True
Call CheckOnDeck
End If
Exit Sub

End Sub
Sub SaveSearchList()

    CurRow1 = searchlist.row
    CurCol = 0
    undo.Enabled = True
    On Error GoTo errorhandler

    searchlist.AllowBigSelection = True
    searchlist.row = 1
    searchlist.Col = 0
    searchlist.RowSel = searchlist.Rows - 1
    searchlist.ColSel = 8
    allCells1 = searchlist.Clip

    numRows = searchlist.Rows
    ReDim FileColors(searchlist.Rows - 1)
    For i = 1 To searchlist.Rows - 1
        searchlist.row = i
        FileColors(i) = searchlist.CellBackColor
        Write #FileNum, FileColors(i)
    Next i
    searchlist.AllowBigSelection = False
    searchlist.row = CurRow1
    searchlist.Col = 0

    Exit Sub

errorhandler:
Exit Sub
End Sub
Sub SavePlayList()

    CurRow2 = Playlist(1).row
    CurRow1 = Playlist(0).row
    CurCol = 0
    undo.Enabled = True
    On Error GoTo errorhandler

    Playlist(0).AllowBigSelection = True
    Playlist(0).row = 1

```

```

Playlist(0).Col = 0
Playlist(0).RowSel = Playlist(0).Rows - 1
Playlist(0).ColSel = 2
allCells1 = Playlist(0).Clip
Playlist(1).AllowBigSelection = True
Playlist(1).row = 1
Playlist(1).Col = 0
Playlist(1).RowSel = Playlist(1).Rows - 1
Playlist(1).ColSel = 8
allCells2 = Playlist(1).Clip
numRows = Playlist(0).Rows
ReDim FileColors(Playlist(0).Rows + 1)
For i = 1 To Playlist(0).Rows - 1
    Playlist(0).row = i
    FileColors(i) = Playlist(0).CellBackColor
    'Write #FileNum, FileColors(i)
Next i
Playlist(1).AllowBigSelection = False
Playlist(0).AllowBigSelection = False
Playlist(0).row = CurRow1
Playlist(1).row = CurRow2
Playlist(0).Col = 1
Playlist(1).Col = 1
Exit Sub

ErrorHandler:
Exit Sub
End Sub

Sub ListFavHits()
If PlayedSongs(1, 1, 1) <> "" Then
    Organize.Enabled = True
    For z = 1 To zed
        searchlist.AddItem PlayedSongs(1, z, 0) & Chr(9) & PlayedSongs(1, z, 1) & Chr(9) & PlayedSongs(1, z, 2) & Chr(9) &
        PlayedSongs(1, z, 3) & Chr(9) & PlayedSongs(1, z, 4) & Chr(9) & PlayedSongs(1, z, 5) & Chr(9) & PlayedSongs(1, z, 6) & Chr(9) &
        PlayedSongs(1, z, 7) & Chr(9) & PlayedSongs(1, z, 8)
        SearchSongs = SearchSongs + 1
        searchlist.row = SearchSongs
        For X = 0 To 8
            searchlist.Col = X
            searchlist.CellBackColor = PlayedSongs(1, z, 9)
        Next X
        ClrSrch.Enabled = True
        searchlist.BackColorSel = searchlist.CellBackColor
    Next z
Else
    MsgBox ("Sorry...You have no song selections defined as favorite hits.")
End If
End Sub
Sub ClearPlayList()
Dim i As Integer
'reset the song variables

```

```

SongsTime = 0
PlaySongs = 0
'clear the fields associated with song count and time
timebox.Text = Format(TimeSerial(0, 0, CLng(SongsTime)), "hh:mm:ss")
SinglePlayTime.Text = "00:00:00"
NumSongs.Text = "0"
'purge the contents of the playlist
For i = 0 To 1
    Playlist(i).Clear
    Playlist(i).Rows = 1
    Playlist(i).BackColorSel = Playlist(0).BackColorFixed
    Playlist(i).ForeColorSel = Playlist(0).ForeColorFixed
Next i
'reset column widths and make the smallest list visible
Call FormatHeaders
Playlist(0).Visible = True
Playlist(1).Visible = False
'reset the buttons
SavePlay.Enabled = False
RndMix.Enabled = False
Mix.Enabled = False
Now.Enabled = False
Now.BackColor = &H8000000F
PlayButton.BackColor = &H8000000F
PlayButton.Enabled = False
AddList(0).Enabled = False
Command1.Enabled = False
ExpandList.Enabled = False
'reset button colors and return selection to searchlist
Now.BackColor = &H8000000F
Mix.BackColor = &H8000000F
searchlist.BackColorSel = &H80000008
searchlist.ForeColorSel = &H8000000E
End Sub
Sub ClearSearchList()
    Dim i As Integer
'reset caption of main search button and text fields
search.Caption = "Search Music Categories"

For i = 0 To 9
    csearch(i).Caption = ""
Next i
'remove all rows of the list
searchlist.Clear
searchlist.Rows = 1
Call FormatHeaders
'reset the searchlist colors
searchlist.BackColorSel = searchlist.BackColorFixed
searchlist.ForeColorSel = searchlist.ForeColorFixed
searchlist.BackColor = &H8000000E
'reset the main search flag and flag label
csearch(0).Caption = "none"
searchflag = 0
'reset searchlist variables and reset buttons

```

```

SearchSongs = 0
AddList(0).Enabled = False
AddList(1).Enabled = False
ClrSrch.Enabled = False
Organize.Enabled = False
Now.Enabled = False
Now.BackColor = &H800000F
End Sub
Sub DeletePlay(RowNum As Integer)
If Playlist(0).Rows <= 2 Then
    Playlist(1).row = 1
    For i = 0 To 8
        UndoText(i) = Playlist(1).TextMatrix(1, i)
    Next i
    ClearPlayList
Else
    PlaySongs = PlaySongs - 1
    SongsTime = SongsTime - CLng(Val(Playlist(0).TextMatrix(RowNum, 0)))
    timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
    NumSongs.Text = PlaySongs
    Playlist(0).RemoveItem RowNum
    Playlist(1).RemoveItem RowNum
End If
End Sub
Sub ExpandListButs()
On Error Resume Next
Dim X As Integer
Dim ButWidth(9) As Integer
Dim ButLeft(8) As Integer
ButWidth(1) = 2450
ButWidth(2) = 1960
ButWidth(3) = 690
ButWidth(4) = 1630
ButWidth(5) = 1000
ButWidth(6) = 1450
ButWidth(7) = 1150
ButWidth(8) = 1080
ButLeft(2) = 4410
ButLeft(3) = 5100
ButLeft(4) = 6730
ButLeft(5) = 7730
ButLeft(6) = 9180
ButLeft(7) = 10330
ButLeft(8) = 11410
For X = 1 To 8
    SearchCat(X).Width = ButWidth(X) + (HeadExpand * 44.5)
Next X
For X = 2 To 8
    SearchCat(X).Left = SearchCat(X - 1).Left + SearchCat(X - 1).Width - 15

```

```

Next X
End Sub
Sub FormatHeaders()
'Expands the headers of the spreadsheets to match screen width
On Error Resume Next
Playlist(0).FormatString = "<Song Title           " & Space(5 * HeadExpand) & "<Artist           " &
Space(5 * HeadExpand)
Playlist(1).FormatString = "<Song Title           " & Space(HeadExpand) & "<Artist           " &
Space(HeadExpand) & "<Date           " & Space(HeadExpand) & "<Music Category           " & Space(HeadExpand) & "<Music Style "
& Space(HeadExpand) & "<Dance Type           " & Space(HeadExpand) & "<Music Speed           " & Space(HeadExpand) & "<Energy
" & Space(HeadExpand)
searchlist.FormatString = "<Song Title           " & Space(HeadExpand) & "<Artist           " &
Space(HeadExpand) & "<Date           " & Space(HeadExpand) & "<Music Category           " & Space(HeadExpand) & "<Music Style "
& Space(HeadExpand) & "<Dance Type           " & Space(HeadExpand) & "<Music Speed           " & Space(HeadExpand) & "<Energy
" & Space(HeadExpand)
End Sub
Sub CheckSub(checker As String)
If checker = "Sub1" Then
SubCol = "Sub2"
SubCount = 0
ElseIf checker = "Sub2" Then
SubCol = "Sub3"
ElseIf checker = "Sub3" Then
SubCol = "Sub4"
ElseIf checker = "Sub4" Then
SubCol = "Sub5"
ElseIf checker = "Sub5" Then
SubCol = "Sub6"
ElseIf checker = "Sub6" Then
SubCol = "Sub7"
ElseIf checker = "Sub7" Then
SubCol = "Sub8"
ElseIf checker = "Sub8" Then
SubCol = "Sub9"
ElseIf checker = "Sub9" Then
SubCol = "Sub10"
ElseIf checker = "Sub10" Then
SubCol = "Sub11"
ElseIf checker = "Sub11" Then
SubCol = "Sub1"

End If
SubCount = SubCount + 1
End Sub

'Option Compare Text
Sub CheckMain(checker2 As String)
If checker2 = "Main" Then
Cat1 = "Main1"
ElseIf checker2 = "Main1" Then
Cat1 = "Main2"
MainCount = 0
ElseIf checker2 = "Main2" Then
Cat1 = "Main3"

```

```

ElseIf checker2 = "Main3" Then
    Cat1 = "Main4"
ElseIf checker2 = "Main4" Then
    Cat1 = "Main5"
ElseIf checker2 = "Main5" Then
    Cat1 = "Main6"
ElseIf checker2 = "Main6" Then
    Cat1 = "Main7"
ElseIf checker2 = "Main7" Then
    Cat1 = "Main8"
ElseIf checker2 = "Main8" Then
    Cat1 = "Main1"

End If
MainCount = MainCount + 1
End Sub
Sub CheckOnDeck()
Dim songlist2 As String
Dim songlength2 As Integer
On Error GoTo errorHandler
If Playlist(0).Rows > 1 Then
    songlength2 = Val(Playlist(0).TextMatrix(1, 0))

    Playlist(0).row = 1
    Playlist(1).row = 1
    Playlist(0).BackColorSel = Playlist(0).CellBackColor
    Playlist(0).ForeColorSel = Playlist(0).CellForeColor
    Playlist(1).BackColorSel = Playlist(1).CellBackColor
    Playlist(1).ForeColorSel = Playlist(1).CellForeColor

    Screen1.cursong(OtherChannel).Text = Playlist(0).TextMatrix(1, 1)
    Screen1.cursong(OtherChannel).BackColor = Playlist(0).CellBackColor
    Screen1.Text1(OtherChannel).Text = Format(TimeSerial(0, 0, songlength2), "hh:mm:ss")
    Screen1.TimeElapsed(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
    For X = 0 To 8 -
        Screen1.CurrentSongExpanded(OtherChannel).TextMatrix(1, X) = Playlist(1).TextMatrix(1, X)
        Screen1.CurrentSongExpanded(OtherChannel).CellBackColor = Playlist(1).CellBackColor
        Screen1.CurrentSongExpanded(OtherChannel).BackColorSel = Playlist(1).CellBackColor
        Screen1.CurrentSongExpanded(OtherChannel).ForeColorSel = Playlist(1).CellForeColor

    Next X
    Data1.Recordset.Close
Else
    Screen1.cursong(OtherChannel).Text = ""
    Screen1.cursong(OtherChannel).BackColor = &H80000009
    Screen1.Text1(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
    Screen1.TimeElapsed(OtherChannel).Text = Format(TimeSerial(0, 0, 0), "hh:mm:ss")
End If
Screen1.PlayLab(OtherChannel).Visible = False
Screen1.QUElab(OtherChannel).Visible = True
Exit Sub

errorHandler:

```

```

Exit Sub

End Sub

Private Sub AllSpeeds_Click()
    AllSpeeds.Visible = False
    AllSpeeds.Enabled = False
End Sub

Private Sub CancelSubScreen_Click()
    CancelSearch = True
End Sub

Private Sub ENTERKEY_Click()
    If searchfield.Visible = True Then
        BeginSearch.SetFocus
        SendKeys "{end}"
        SendKeys "{enter}"
    Else
        TimeOK.SetFocus
        SendKeys "{enter}"
    End If
End Sub

Private Sub ExitSystem_Click()
    response = MsgBox("Are you sure you want to exit the system?", 4)
    If response = vbNo Then
        Exit Sub
    Else
        ExitButtonPushed = True
        EndItAll
    End If
End Sub

Private Sub Form_GotFocus()
    On Error Resume Next
    Screen2.DD.Group = "Screen2"
End Sub

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
    Dim Msg ' Declare variable
    If ExitButtonPushed = False Then

        Msg = "Do you really want to exit the application?"

    Else
        EndItAll
        ExitButtonPushed = True
    End If

End Sub

Private Sub Form_Resize()

```

```

If WindowState = 2 Then
  Screen1.WindowState = 2
  Recorder.WindowState = 2
  HeadExpand = 0
  Call FormatHeaders
  Call ExpandListButs
  HeadExpand = (Screen2.Width - 11565) / 443
  Call FormatHeaders
  Call ExpandListButs
  If ExpandList.Caption = "EXPAND" Then
    Picture1.Left = 6720
    Picture1.Width = Screen.Width - 6830
    SinglePlayTime.Left = Screen.Width + 100
    Label5.Left = Screen.Width + 100
    Label1.Left = 1440
  Else
    Picture1.Left = 0
    Picture1.Width = Screen2.Width - 195
    Playlist(1).Left = 0
    SinglePlayTime.Left = 4800
    Label5.Left = 6240
    Label1.Left = 0.41 * Picture1.Width
  End If
  Picture1.Top = 0

  Picture4.Height = Screen.Height - 6290
  Picture4.Width = Screen2.Width - 195
  searchlist.Width = Picture4.Width - 100
  searchlist.Height = Picture4.Height - 600
  For X = 0 To 4
    ScreenShow(X).Top = Screen.Height - 1155
  Next X
  undo.Top = Screen.Height - 1155
  Help.Top = Screen.Height - 1155
  SavePlay.Top = Screen.Height - 1490
  PlayButton.Top = Screen.Height - 1490
  LoadPlay.Top = Screen.Height - 995
  Now.Top = Screen.Height - 995

  ScreenShow(0).Left = 0.311 * Screen.Width
  For X = 1 To 4
    ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
  Next X
  undo.Left = Screen.Width - 2025
  Help.Left = Screen.Width - 2985
  Label2.Left = 0.4 * Screen.Width
  search.Left = Screen.Width - 4575
  ClrSrch.Left = Screen.Width - 2175
  Playlist(0).Width = Picture1.Width - 240
  Playlist(1).Width = Screen.Width

Else
  HeadExpand = 0
  maxed = True

```

```

Call FormatHeaders
Call ExpandListButs
HeadExpand = (Screen2.Width - 11565) / 340
Call ExpandListButs
Call FormatHeaders
If ExpandList.Caption = "EXPAND" Then
    Picture1.Left = 6720
    Picture1.Width = 4815
    Playlist(1).Left = 120
    Playlist(0).Left = 120
    Label1.Left = 1440
Else
    Picture1.Left = 0
    Picture1.Width = 11535
    Playlist(1).Left = 0
    Playlist(0).Left = 0
    Label1.Left = 4200
End If
SinglePlayTime.Left = 4800
Label5.Left = 6240
Picture1.Top = 0
Picture4.Height = 2775
Picture4.Width = 11535
searchlist.Width = 11435
searchlist.Top = 480
searchlist.Height = 2175
For X = 0 To 4
    ScreenShow(X).Top = 7800
Next X
undo.Top = 7800
Help.Top = 7800
LoadPlay.Top = 7560
Now.Top = 8040
SavePlay.Top = 8040
PlayButton.Top = 7560
Label2.Left = 4080
ScreenShow(0).Left = 3600
For X = 1 To 4
    ScreenShow(X).Left = ScreenShow(X - 1).Left + 1200
Next X
undo.Left = 9540
Help.Left = 8580
search.Left = 6840
ClrSrch.Left = 9240
Playlist(0).Width = Picture1.Width - 240
Playlist(1).Width = 11535
End If
ExitSystem.Left = undo.Left + 975
ExitSystem.Top = undo.Top
End Sub
Private Sub AddList_Click(Index As Integer)
Dim i As Integer
Dim j As Integer
Dim oldcolor, oldcolor2, oldcolor3 As Long

```

```

Dim oldtime As Integer
On Error GoTo errorhandler
delete.Enabled = True
ExpandList.Enabled = True
SavePlay.Enabled = True
Command1.Enabled = True
RndMix.Enabled = True
If IsNull(channel) Then
    channel = 1
    OtherChannel = 2
End If
MousePointer = 11
'select the text from the search list
Now.BackColor = &HFF&
Now.Enabled = True
PlayButton.Enabled = True
PlayButton.BackColor = &HFF8080
undo.Enabled = True
    UndoEvent = 0
    If Playlist(0).Rows = 1 Then
        numRows = 0
    Else
        SavePlayList
    End If
If searchlist.Rows >= 1 Then

    'if the PICK button is pushed
    If Index = 1 Then
        If SellList = 1 Then
            PlaySongs = PlaySongs + 1
            zed = zed + 1
            For i = 0 To 8
                selsong(i) = searchlist.TextMatrix(searchlist.row, i)
                PlayedSongs(1, zed, i) = searchlist.TextMatrix(searchlist.row, i)
            Next i
            PlayedSongs(1, zed, 9) = searchlist.CellBackColor
            Playlist(0).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2)
            Playlist(1).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2) & Chr(9) & selsong(3) & Chr(9) &
            selsong(4) & Chr(9) & selsong(5) & Chr(9) & selsong(6) & Chr(9) & selsong(7) & Chr(9) & selsong(8)
            'add a song to the total to be played

            NumSongs.Text = PlaySongs
            Playlist(0).row = Playlist(0).Rows - 1
            Playlist(1).row = Playlist(1).Rows - 1
            'add the song time to the play time box
            SongsTime = SongsTime + CLng(Val(searchlist.TextMatrix(searchlist.row, 0)))
            textbox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
            For z = 0 To 2
                Playlist(0).Col = z
                Playlist(0).CellBackColor = searchlist.CellBackColor
                Playlist(0).BackColorSel = searchlist.CellBackColor
                Playlist(0).ForeColorSel = searchlist.CellForeColor
            Next z

```

```

For z = 0 To 8
  Playlist(1).Col = z
  Playlist(1).CellBackColor = searchlist.CellBackColor
  Playlist(1).BackColorSel = searchlist.CellBackColor
  Playlist(1).ForeColorSel = searchlist.CellForeColor
Next z
End If
'if the NEXT button is pushed
Elseif Index = 0 Then

'if the searchlist is selected
If SelList = 1 Then
  zed = zed + 1
  For i = 0 To 8
    selsong(i) = searchlist.TextMatrix(searchlist.row, i)
    PlayedSongs(1, zed, i) = searchlist.TextMatrix(searchlist.row, i)
  Next i
  PlayedSongs(1, zed, 9) = searchlist.CellBackColor
  'if the is only one row in the play list (fixed top)
  If Playlist(0).Rows = 1 Then
    Playlist(0).Rows = Playlist(0).Rows + 1
    Playlist(1).Rows = Playlist(1).Rows - 1
    NumSongs.Text = PlaySongs
    time = CLng(Val(searchlist.TextMatrix(searchlist.row, 0)))
    SongsTime = SongsTime + CLng(Val(searchlist.TextMatrix(searchlist.row, 0)))
    timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
    For j = 0 To 2
      Playlist(0).TextMatrix(1, j) = selsong(j)
      Playlist(0).row = 1
      Playlist(0).Col = j
      Playlist(0).CellBackColor = searchlist.CellBackColor
      Playlist(0).BackColorSel = searchlist.CellBackColor
      Playlist(0).ForeColorSel = searchlist.CellForeColor
    Next j
    For j = 0 To 8
      Playlist(i).TextMatrix(1, j) = selsong(j)
      Playlist(1).row = 1
      Playlist(1).Col = j
      Playlist(1).CellBackColor = searchlist.CellBackColor
      Playlist(1).BackColorSel = searchlist.CellBackColor
      Playlist(1).ForeColorSel = searchlist.CellForeColor
    Next j
  Else
    'if the is more than one row in the play list
    Playlist(0).Rows = Playlist(0).Rows + 1
    Playlist(1).Rows = Playlist(1).Rows - 1
    PlaySongs = PlaySongs + 1
    NumSongs.Text = PlaySongs

  For i = Playlist(0).Rows - 2 To 1 Step -1
    For X = 0 To 1
      Playlist(X).row = i
      qldcolor = Playlist(X).CellBackColor
      Playlist(X).RowPosition(i) = i + 1
    
```

```

        Playlist(X).row = j + 1
    Next X
    For j = 0 To 2
        Playlist(0).Col = j
        'change color
        Playlist(0).CellBackColor = oldcolor
        Playlist(0).BackColorSel = searchlist.CellBackColor
        Playlist(0).ForeColorSel = searchlist.CellForeColor
    Next j
    For j = 0 To 8
        Playlist(1).Col = j
        'change color
        Playlist(1).CellBackColor = oldcolor
        Playlist(1).BackColorSel = searchlist.CellBackColor
        Playlist(1).ForeColorSel = searchlist.CellForeColor
    Next j

Next i
For i = 0 To 8
    selsong(i) = searchlist.TextMatrix(searchlist.row, i)
Next i
For j = 0 To 2
    Playlist(0).TextMatrix(1, j) = selsong(j)
    Playlist(0).row = 1
    Playlist(0).Col = j
    Playlist(0).CellBackColor = searchlist.CellBackColor
    Playlist(0).BackColorSel = searchlist.CellBackColor
    Playlist(0).ForeColorSel = searchlist.CellForeColor
Next j
For j = 0 To 8
    Playlist(1).TextMatrix(1, j) = selsong(j)
    Playlist(1).row = 1
    Playlist(1).Col = j
    Playlist(1).CellBackColor = searchlist.CellBackColor
    Playlist(1).BackColorSel = searchlist.CellBackColor
    Playlist(1).ForeColorSel = searchlist.CellForeColor
Next j
SongsTime = SongsTime - CLng(Val(searchlist.TextMatrix(searchlist.row, 0)))
timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
End If
Else
'if the play list is selected then just move the song to the top
If Playlist(0).Rows = 1 Then
    MsgBox "the Song you want to move is already next!"

Else

    X = Playlist(0).row
    For Y = 0 To 8
        selsong(Y) = Playlist(1).TextMatrix(X, Y)
    Next Y
    oldcolor2 = Playlist(0).CellBackColor
    oldcolor3 = Playlist(0).CellForeColor

```

```

For j = X - 1 To 1 Step -1
  Playlist(0).row = i
  Playlist(1).row = i
  oldcolor = Playlist(0).CellBackColor
  For j = 0 To 2
    Playlist(0).TextMatrix(i + 1, j) = Playlist(0).TextMatrix(i, j)
    Playlist(0).row = i + 1
    Playlist(0).Col = j
    'change color
    Playlist(0).CellBackColor = oldcolor
  Next j
  For j = 0 To 8
    Playlist(1).TextMatrix(i + 1, j) = Playlist(1).TextMatrix(i, j)
    Playlist(1).row = i + 1
    Playlist(1).Col = j
    'change color
    Playlist(1).CellBackColor = oldcolor
  Next j
Next i
For j = 0 To 2
  Playlist(0).TextMatrix(1, j) = selsong(j)
  Playlist(0).row = 1
  Playlist(0).Col = j
  Playlist(0).CellBackColor = oldcolor2
  Playlist(0).BackColorSel = oldcolor2
  Playlist(0).ForeColorSel = oldcolor3
Next j
For j = 0 To 8
  Playlist(1).TextMatrix(1, j) = selsong(j)
  Playlist(1).row = 1
  Playlist(1).Col = j
  Playlist(1).CellBackColor = oldcolor2
  Playlist(1).BackColorSel = oldcolor2
  Playlist(1).ForeColorSel = oldcolor3
Next j
End If
End If
'searchlist.RemoveItem searchlist.Row Position
End If
End If
MousePointer = 0
UndoRow = Playlist(0).row
Call CheckOnDeck
Exit Sub

errorhandler:
MsgBox ("Sorry, there was a problem with the song data...unable to add to playlist")
MousePointer = 0
End Sub

Private Sub backup_Click()
If searchfield.Visible = True Then
  searchfield.SetFocus
  SendKeys "{end}"

```

```

    SendKeys "{backspace}"
    SendKeys "{tab}"
Else
    TimeInput.SetFocus
    SendKeys "{end}"
    SendKeys "{backspace}"
    SendKeys "{tab}"
End If
End Sub

```

```

Private Sub BeginSearch_Click()
'loop to search the Access database
Dim position, final As Long
Dim flag As Boolean
Dim selection As String
Dim Mcat1 As String
Dim string2 As String * 255
Dim SelTag As String
Dim tempfield(9) As String
Dim finalfield(10) As String
'SaveSearchList
On Error GoTo errorhandler:
keyboard.Visible = False
delete.Enabled = False
AddList(1).Enabled = False
AddList(0).Enabled = False
CancelSearch = False
If searchflag >= 10 Then
    MsgBox "Sorry, you have already narrowed your search to ten categories !!!"
    MousePointer = 0

    searchfield.Text = ""
    search.Enabled = True
    For j = 1 To 8
        SearchCat(j).Enabled = False
    Next j
    AddList(0).Enabled = True
    AddList(1).Enabled = True
    ClrSrch.Enabled = True
    Organize.Enabled = True
    Exit Sub
End If
UndoEvent = 1
SaveSearchList
undo.Enabled = True
flag = True
SearchCats(0, searchflag) = colnum
SearchCats(1, searchflag) = searchfield.Text
csearch(searchflag).Caption = searchfield.Text
MousePointer = 11
'search data base for first search
If searchflag = 0 Then
    selection = "*" & Trim(searchfield.Text) & "*"
    If colnum >= 4 Then

```

```

Data2.RecordSource = Trim(Str(colnum))
Data2.Refresh
Data3.Refresh
Data2.Recordset.MoveLast
Data3.Recordset.MoveLast
Data2.Recordset.MoveFirst
Data3.Recordset.MoveFirst
Data2.Recordset.FindFirst "Label LIKE " & selection
If Data2.Recordset.NoMatch Then
    MsgBox ("Sorry...Could not find that entry.")
    flag = False
Else
    SelTag = Data2.Recordset.Fields("Tag")
    selection = "" & SelTag & ""
End If
End If

```

MainLoop:

```

DoEvents
Data1.RecordSource = "LP Complete Music Guide"
Data1.Refresh
Data2.Refresh
Data3.Refresh
Data1.Recordset.MoveLast
Data3.Recordset.MoveLast
Data1.Recordset.MoveFirst
Data3.Recordset.MoveFirst

Data1.Recordset.FindLast Cat1 & " LIKE " & selection
If Data1.Recordset.NoMatch Then flag = False
final = Data1.Recordset.AbsolutePosition
Data1.Recordset.MoveFirst
If flag = True Then
SearchSongs = searchList Rows - 1
Do Until position = final
    DoEvents
    Data1.Recordset.FindNext Cat1 & " LIKE " & selection
    If Data1.Recordset.NoMatch Then

        position = Data1.Recordset.AbsolutePosition
Else
    position = Data1.Recordset.AbsolutePosition
    'assign song color to tracking array
    Data3.Recordset.MoveFirst
    If IsNull(Data1.Recordset.Fields("Main1")) Then
        Mcat1 = "none found"
        MnCatColor(SearchSongs) = &H80000005
    Else
        Mcat1 = Data1.Recordset.Fields("Main1")
        Data3.Recordset.FindFirst "Main1 = " & Mcat1 & ""
        MnCatColor(SearchSongs) = Val(Data3.Recordset.Fields("colorID"))
    End If

```

```

'find the abbreviations for each category
finalfield(9) = Val(Data3.Recordset.Fields("colorID"))
If IsNull(Data1.Recordset.Fields("time")) Then
    finalfield(0) = 300
Else
    finalfield(0) = Data1.Recordset.Fields("time")
End If
If IsNull(Data1.Recordset.Fields("Title")) Then
    finalfield(1) = "NL"
Else
    finalfield(1) = Data1.Recordset.Fields("Title")
End If
If IsNull(Data1.Recordset.Fields("Artist")) Then
    finalfield(2) = "NL"
Else
    finalfield(2) = Data1.Recordset.Fields("Artist")
End If
If IsNull(Data1.Recordset.Fields("Date")) Then
    finalfield(3) = "NL"
Else
    finalfield(3) = Data1.Recordset.Fields("Date")
End If
If IsNull(Data1.Recordset.Fields("Main1")) Then
    tempfield(4) = "NL"
Else
    tempfield(4) = Data1.Recordset.Fields("Main1")
End If
If IsNull(Data1.Recordset.Fields("Mstyle")) Then
    tempfield(5) = "NL"
Else
    tempfield(5) = Data1.Recordset.Fields("Mstyle")
End If
If IsNull(Data1.Recordset.Fields("Dtype")) Then
    tempfield(6) = "NL"
Else
    tempfield(6) = Data1.Recordset.Fields("Dtype")
End If
If IsNull(Data1.Recordset.Fields("Speed")) Then
    tempfield(7) = "NL"
Else
    tempfield(7) = Data1.Recordset.Fields("Speed")
End If
If IsNull(Data1.Recordset.Fields("Energy")) Then
    tempfield(8) = ""
Else
    tempfield(8) = Data1.Recordset.Fields("Energy")
End If
For X = 4 To 8
    Data2.RecordSource = X
    Data2.Refresh
    Data2.Recordset.MoveLast
    Data2.Recordset.MoveFirst
    Data2.Recordset.FindFirst "Tag = " & tempfield(X) & ""
    finalfield(X) = Data2.Recordset.Fields("Label")

```

```

Next X
searchlist.AddItem finalfield(0) & Chr(9) & finalfield(1) & Chr(9) & finalfield(2) & Chr(9) & finalfield(3) & Chr(9) &
finalfield(4) & Chr(9) & finalfield(5) & Chr(9) & finalfield(6) & Chr(9) & finalfield(7) & Chr(9) & finalfield(8)
If IsNull(finalfield(0)) Then
    searchlist.TextMatrix(searchlist.row, 0) = 300
End If

searchlist.row = SearchSongs + 1
For z = 0 To 8
    searchlist.Col = z
    searchlist.CellBackColor = MnCatColor(SearchSongs)
Next z
searchlist.BackColorSel = MnCatColor(SearchSongs)
searchlist.ForeColorSel = searchlist.ForeColor
SearchSongs = SearchSongs + 1
search.Caption = "Narrow Search Results"
searchflag = 1

End If
'move to the next data row in data base
If CancelSearch = True Then
    Data1.Recordset.Close
    Data2.Recordset.Close
    Data3.Recordset.Close
    MousePointer = 0
    SearchScreen.Visible = False
    searchfield.Text = ""
    search.Enabled = True
    For j = 1 To 8
        SearchCat(j).Enabled = False
    Next j
    AddList(0).Enabled = True
    AddList(1).Enabled = True
    ClrSrch.Enabled = True
    Organize.Enabled = True
    Exit Sub
End If
Loop
If colnum = 4 Then
    Call CheckMain(Cat1)
    If MainCount < 8 Then GoTo MainLoop
End If
MainCount = 0

End If
If SearchSongs > 0 Then flag = True
stoppoint:
If flag = False Then
    MsgBox "Your entry was either misspelled or is not found in your current Music Library, Please go to Screen 4 and review and
select music from the LP MOAEC Music Library."
    MousePointer = 0
    Data1.Recordset.Close
    Data2.Recordset.Close

```

```

Data3.Recordset.Close
keyboard.Visible = True
searchfield.Text = ""
searchfield.SetFocus
Exit Sub
End If
Data1.Recordset.Close
Data2.Recordset.Close
Data3.Recordset.Close

```

```

Elseif searchflag < 10 And searchflag <> 0 Then
'if searchlist is already full, narrow the field

```

```

For j = 1 To searchflag
i = 1
Do While i <= searchlist.Rows - 1
If searchlist.Rows <= 2 Then Exit Do
If SearchCats(0, j) <> 9 Then
result = InStr(1, searchlist.TextMatrix(i, SearchCats(0, j)), SearchCats(1, j), 1)
If result = 0 Then
searchlist.row = i
searchlist.RemoveItem searchlist.row
SearchSongs = SearchSongs - 1

Else
i = i - 1
End If
Elseif SearchCats(0, j) = 9 Then
result = InStr(1, searchlist.TextMatrix(i, SearchCats(0, j)), SearchCats(1, j), 1)
If result = 0 Then
searchlist.row = i
searchlist.RemoveItem searchlist.row
SearchSongs = SearchSongs - 1

Else
i = i - 1
End If
End If

Loop
Next j
searchflag = searchflag + 1

```

```

End If

```

```

'once the search is complete, hide the screen

```

```

MousePointer = 0
SearchScreen.Visible = False
searchfield.Text = ""
search.Enabled = True
For i = 1 To 8
SearchCat(i).Enabled = False

```

```

    Next i
    AddList(0).Enabled = True
    AddList(1).Enabled = True
    ClrSrch.Enabled = True
    Organize.Enabled = True
    Exit Sub

errorhandler:
    MsgBox "Sorry, There was an error accessing music database." & Chr(13) & "Please make sure the database is properly installed
or" & Chr(13) & "contact Looney Productions."
    MousePointer = 0

SearchScreen.Visible = False
searchfield.Text = ""
search.Enabled = True
    For i = 1 To 8
        SearchCat(i).Enabled = False
    Next i
AddList(0).Enabled = True
AddList(1).Enabled = True
ClrSrch.Enabled = True
Organize.Enabled = True
Exit Sub
End Sub

Private Sub Cancel_Click()
    keyboard.Visible = False
    SearchScreen.Visible = False
    searchfield.Text = ""
    search.Enabled = True
    For i = 1 To 8
        SearchCat(i).Enabled = False
    Next i
    CancelSearch = True
End Sub

Private Sub Category1_Click(Index As Integer)
    Dim i As Integer
    Dim j As Integer
    Dim flag As Boolean
    Dim TempCat, TempCat2 As String
    Dim c As Integer

    Mix.BackColor = &H8000000F
    PlayTime.BackColor = &H8000000F
    Mix.BackColor = &H8000000F
    For i = 0 To 3
        SongSpeed(i).BackColor = &H8000000F
        AllSpeeds.BackColor = &H8000000F

    Next i

    For i = 0 To 2

```

```

        csearch(i).Caption = ""
    Next i
    csearch(0).Caption = "none"
    searchflag = 0
    SelList = 0
    SelCat1 = Category1(Index).Tag
    If Index = 24 Then
        Cat1 = "Dtype"
    ElseIf Index = 25 Then
        Cat1 = "Main1"
    Else
        Cat1 = "Main1"
    End If
    SubCol = "Sub1"
    'if clicked twice, goto category 2 screen and clear time options
    If Index = 23 Then
        Call ListFavHits
        Exit Sub
    End If
    If (cat1count = 1) And (Index = cliktrak) Then
        Call titlefrm.Main
        CatColor = Category1(Index).BackColor

        Category(0).BackColor = CatColor
        Category(1).BackColor = CatColor
        Category(0).Caption = Category1(Index).Tag
        FavHitsLab1.Caption = Category1(Index).Tag
        FavHitsLab1.BackColor = CatColor
        FavHitsLab2.BackColor = CatColor
        Category(1).Visible = False
        cat1count = 0
        For X = 0 To 23
            Category2(X).Caption = ""
            Category2(X).BackColor = &H8000000F
            i = i - 1
        Next X
        'disable speed buttons since switching to screen 3
        For i = 0 To SongSpeed.count - 1
            AllSpeeds.Enabled = False
            SongSpeed(i).Enabled = False
            SongSpeed(i).BackColor = &H8000000F
            AllSpeeds.BackColor = &H8000000F

        Next i
        For i = 0 To 5
            FavHits(i).BackColor = CatColor
        Next i
        Mix.Enabled = False
        PlayTime.Enabled = False
        Mix.BackColor = &H8000000F
        PlayTime.BackColor = &H8000000F
        'change screen lights to screen 3 red
        For i = 0 To 4
            Screen2.ScreenShow(i).BackColor = &H8000000F

```

```

    Screen2.ScreenShow(i).ForeColor = &H8000012
Next i
If Index <> 23 Then
    Screen2.ScreenShow(2).BackColor = &HC0&
    Screen2.ScreenShow(2).ForeColor = &H800000E
    cat1screen.Visible = False
    FavHitsSern.Visible = False
    cat2screen.Visible = True
End If
For i = 0 To 8
    searchdate(i).BackColor = CatColor
Next i
'Make sure the static categories match the button
If Index = 20 Then
    subcatcount = 9
    subcattotal = 9
    FinalCats(7) = StaticCats(9)
    FinalCats(8) = StaticCats(10)
    FinalCats(9) = StaticCats(11)
ElseIf Index = 18 Then
    subcatcount = 8
    subcattotal = 8
    FinalCats(7) = StaticCats(8)
    FinalCats(8) = StaticCats(11)
ElseIf Index = 1 Then
    subcatcount = 7
    subcattotal = 7
    FinalCats(7) = StaticCats(7)
Else
    subcatcount = 6
    subcattotal = 6
End If
'make the temporary subcats array with tags
For X = 1 To subcattotal
DoEvents
If CancelSearch = True Then GoTo stopme
    Data2.RecordSource = "Subs"
    Data2.Refresh
    Data3.Refresh
    Data2.Recordset.MoveLast
    Data3.Recordset.MoveLast
    Data2.Recordset.MoveFirst
    Data3.Recordset.MoveFirst
    Data2.Recordset.FindFirst "Label = " & FinalCats(X) & ""
    If Data2.Recordset.NoMatch Then
        flag = True

    Else
        SubCats(X) = Data2.Recordset.Fields("Tag")
    End If
Next X

```

```

'FIND THE SONG CATEGORY TAG THAT MATCHES THE BUTTON
For X = 1 To subcattotal
DoEvents
If CancelSearch = True Then GoTo stopme
If SelCat1 = "Energy" Then
SelCat1 = "EN"
Else
Data2.RecordSource = 4
Data2.Refresh
Data3.Refresh
Data2.Recordset.MoveLast
Data3.Recordset.MoveLast
Data2.Recordset.MoveFirst
Data3.Recordset.MoveFirst
Data2.Recordset.FindFirst "Label = " & SelCat1 & ""
If Data2.Recordset.NoMatch Then
flag = True
Else
SelTag = Data2.Recordset.Fields("Tag")
SelCat1 = SelTag
MemCat = SelTag
End If
End If
Next X

'fill secondary category buttons with text from data
MainSubLoop
DoEvents
If CancelSearch = True Then GoTo stopme
Data1.Refresh
Data1.Recordset.MoveLast
Data1.Recordset.MoveFirst
MousePointer = 11
LoopReset:
j = 0
For j = 1 To Data1.Recordset.RecordCount
'if cat1 matches the first button, type cat2 in the screen3 buttons

'that is if cat2 is not blank
If UCase(Data1.Recordset.Fields("Main1")) = UCase(Trim(SelCat1)) And (Data1.Recordset.Fields(SubCol) <> "") Then
If IsNull(Data1.Recordset.Fields(SubCol)) Then
j = j + 1
GoTo LoopReset
End If
'and if it isn't already on a button
flag = False
'find new subcategories not default from database
subcatcount = subcattotal
For l = 1 To subcatcount
If Data1.Recordset.Fields(SubCol) = SubCats(l) Then
flag = True
End If

```

```

Next i
If flag = False Then
  SubCats(subcatcount + 1) = Data1.Recordset.Fields(SubCol)
  subcattotal = subcattotal + 1
End If
End If
Data1.Recordset.MoveNext
Next j

Call CheckSub(SubCol)
If SubCount < 11 Then GoTo MainSubLoop
SubCount = 0
For X = 1 To subcattotal
  Data2.RecordSource = "Subs"
  Data2.Refresh
  Data3.Refresh
  Data2.Recordset.MoveLast
  Data3.Recordset.MoveLast
  Data2.Recordset.MoveFirst
  Data3.Recordset.MoveFirst
  Data2.Recordset.FindFirst "Tag = " & SubCats(X) & ""
Next X
'sort subcats array
For t = subcattotal To 1 Step -1
  DoEvents
  If CancelSearch = True Then GoTo stopme
  TempCat = FinalCats(t - 1)
  TempCat2 = SubCats(t - 1)
  c = StrComp(TempCat, FinalCats(t))
  If c = 1 Then
    FinalCats(t - 1) = FinalCats(t)
    SubCats(t - 1) = SubCats(t)
    FinalCats(t) = TempCat
    SubCats(t) = TempCat2
    t = subcattotal - 1
  End If
Next t

'fill buttons with the finalcats array
For X = 0 To subcattotal - 1
  Category2(X).Caption = FinalCats(X - 1)
  Category2(X).BackColor = Category1(Index).BackColor
  i = i + 1
Next X

'make the last of the buttons (if any) blank
Do While i <= 23
  Category2(i).Caption = " "
  Category2(i).BackColor = &H8000000F
  i = i + 1

```

```

    Loop
stopme:

    Data2.Recordset.Close
    Data3.Recordset.Close
    cat1screen.Visible = False
    cat2screen.Visible = True
    MousePointer = 0
    'reset color of speed buttons
    CancelSearch = False
    Exit Sub
End If

'otherwise assign button caption to primary category variable
kliktrak = Index
'enable speed selection buttons
CatColor = Category1(Index).BackColor
PlayTime.BackColor = CatColor
PlayTime.Enabled = True
Mix.Enabled = True
Mix.BackColor = CatColor
For i = 0 To SongSpeed.count - 1
    AllSpeeds.Enabled = True
    SongSpeed(i).Enabled = True
    SongSpeed(i).BackColor = CatColor
    AllSpeeds.BackColor = CatColor
Next i
cat1count = 1
End Sub

Private Sub Category2_Click(Index As Integer)
    Dim flag As Boolean
    Dim i As Integer
    Dim tempfield(9) As String
    Dim finalfield(10) As String

    If Category2(Index).Caption = ButMem Then
        MsgBox ("You just picked that button...Please pick another.")
        Exit Sub
    End If
    ButMem = Category2(Index).Caption

    Cat1 = "Main1"
    flag = False
    Category(1).Caption = Category2(Index).Caption
    Category(1).Visible = True

    If Category2(Index).Caption = "Favorite Hits" Then
        ListFavHits
        Exit Sub
    End If
    If Category2(Index).Caption = "ENERGY" Then SubCol = "Energy"
    'fill search screen with selections from the categories
    MousePointer = 11

```

```

If SelCat1 = "SPMIX" Or SelCat1 = "Special Mixes" Then
    Cat1 = "Main3"
    SelCat1 = "SPMIX"

Elseif SelCat1 = "EN" Or SelCat1 = "Energy" Then
    Cat1 = "Main2"
    SelCat1 = "EN"
Elseif SelCat1 = "EL" Or SelCat1 = "Easy Listening" Then
    Cat1 = "Mstyle"
    SelCat1 = "EL"
Elseif SelCat1 = "Special Dance" Or SelCat1 = "SPD" Then
    Cat1 = "Dtype"
    SelCat1 = "SPD"
End If
MainLoop:
    DoEvents
    Data1.Refresh
    Data3.Refresh
    Data1.Recordset.MoveLast
    Data3.Recordset.MoveLast
    Data1.Recordset.MoveFirst
    Data3.Recordset.MoveFirst

For i = 1 To Data1.Recordset.RecordCount
    'if the data base field matches search criteria, write it to the searchlist
    If UCase(Data1.Recordset.Fields(Cat1)) = SelCat1 And UCase(Data1.Recordset.Fields(SubCol)) = UCase(Trim(SubCats(Index
- 1))) Then
        Data3.Recordset.MoveFirst
        If IsNull(Data1.Recordset.Fields("Main1")) Then
            Mcat1 = "none listed"
            MnCatColor(SearchSongs) = &H80000005
        Else
            Mcat1 = Data1.Recordset.Fields("Main1")
            Data3.Recordset.FindFirst "Main1 = '" & Mcat1 & "'"
            MnCatColor(SearchSongs) = Val(Data3.Recordset.Fields("colorID"))
            finalfield(9) = Val(Data3.Recordset.Fields("colorID"))
            If IsNull(Data1.Recordset.Fields("time")) Then
                finalfield(0) = 300
            Else
                finalfield(0) = Data1.Recordset.Fields("time")
            End If
            If IsNull(Data1.Recordset.Fields("Title")) Then
                finalfield(1) = "NL"
            Else
                finalfield(1) = Data1.Recordset.Fields("Title")
            End If
            If IsNull(Data1.Recordset.Fields("Artist")) Then
                finalfield(2) = "NL"
            Else
                finalfield(2) = Data1.Recordset.Fields("Artist")
            End If
            If IsNull(Data1.Recordset.Fields("Date")) Then
                finalfield(3) = "NL"
            End If
        End If
    End If

```

```

Else
    finalfield(3) = Data1.Recordset.Fields("Date")
End If
If IsNull(Data1.Recordset.Fields("Main1")) Then
    tempfield(4) = "NL"
Else
    tempfield(4) = Data1.Recordset.Fields("Main1")
End If
If IsNull(Data1.Recordset.Fields("Mstyle")) Then
    tempfield(5) = "NL"
Else
    tempfield(5) = Data1.Recordset.Fields("Mstyle")
End If
If IsNull(Data1.Recordset.Fields("Dtype")) Then
    tempfield(6) = "NL"
Else
    tempfield(6) = Data1.Recordset.Fields("Dtype")
End If
If IsNull(Data1.Recordset.Fields("Speed")) Then
    tempfield(7) = "NL"
Else
    tempfield(7) = Data1.Recordset.Fields("Speed")
End If
If IsNull(Data1.Recordset.Fields("Energy")) Then
    tempfield(8) = ""
Else
    tempfield(8) = Data1.Recordset.Fields("Energy")
End If
For X = 4 To 8
    Data2.RecordSource = X
    Data2.Refresh
    Data2.Recordset.MoveLast
    Data2.Recordset.MoveFirst
    Data2.Recordset.FindFirst "Tag = '" & tempfield(X) & "'"
    finalfield(X) = Data2.Recordset.Fields("Label")
    Data2.Recordset.Close
Next X
searchlist.AddItem finalfield(0) & Chr(9) & finalfield(1) & Chr(9) & finalfield(2) & Chr(9) & finalfield(3) & Chr(9) &
finalfield(4) & Chr(9) & finalfield(5) & Chr(9) & finalfield(6) & Chr(9) & finalfield(7) & Chr(9) & finalfield(8)
Stime(searchlist.row) = Data1.Recordset.Fields("time")
flag = True
SearchSongs = SearchSongs + 1
search.Caption = "Narrow Search Results"
searchflag = 1
End If

searchlist.row = SearchSongs
For z = 0 To 8
    searchlist.Col = z
    searchlist.CellBackColor = finalfield(9)
Next z
searchlist.BackColorSel = finalfield(9)
searchlist.ForeColorSel = searchlist.ForeColor

```

```

End If

'move to the next data row in data base
Data1.Recordset.MoveNext
Next i
If Category2(Index).Caption <> "ENERGY" Then
    Call CheckSub(SubCol)
    If SubCount < 11 Then GoTo MainLoop
End If
SubCount = 0
SubCol = "Sub1"
Data1.Recordset.Close
Data3.Recordset.Close
MousePointer = 0
AddList(0).Enabled = True
AddList(1).Enabled = True
ClrSrch.Enabled = True
Organize.Enabled = True
If flag = False Then
    MsgBox "No matches were found for your search. Please try again."
    Exit Sub
End If

End Sub

Private Sub ClrSrch_Click()
'clear all items off the search list
UndoEvent = 1
SaveSearchList
Call ClearSearchList
End Sub

Public Sub Command1_Click()
Dim answer As Variant
answer = MsgBox("Are you sure you want to delete the current play list?", 4, "Clear Play List")
If answer = vbNo Then
    Exit Sub
Else
    UndoEvent = 0
    SavePlayList
    ClearPlayList
    RndMix.Enabled = False
    If maxed = True Then
        Picture1.Left = 6720
        Picture1.Width = Screen2.Width - 6830
        SinglePlayTime.Left = Screen.Width + 100
        Label5.Left = Screen.Width + 100
        Label1.Left = 1440
    Else
        Picture1.Width = 4695
        Picture1.Left = 6720
    End If
End Sub

```

```

SinglePlayTime.Left = 4680
Label5.Left = 6240
Label1.Left = 1440

End If
ExpandList.Left = 120
ExpandList.Caption = "EXPAND"
AddList(0).Left = 1020
AddList(1).Left = 1730
RndMix.Left = 2430
delete.Left = 3070
Command1.Left = 3840

Playlist(0).Width = Picture1.Width - 240
Playlist(0).Left = 120
Playlist(1).Visible = False
End If
cat1screen.Visible = True
Call CheckOnDeck

End Sub

Private Sub DataCreate_Click()
'user creates his own song lists and databases
'show a new form
End Sub

Private Sub datalock_Click()
Dim password As String

password = InputBox("Please enter the database access password:")
Datalocked = False
End Sub

Private Sub delete_Click()
Dim answer As String
On Error GoTo errorhandler
If SongSelected = False Then
MsgBox ("No song has been selected for deletion!!!")
Exit Sub
End If
answer = MsgBox("Are you sure you want to delete the selected song?", 4, "Remove Song")
If answer = vbYes Then

If SelList = 2 Then
UndoEvent = 0
SavePlayList
For i = 0 To 8
UndoText(i) = Playlist(1).TextMatrix(1, i)
Next i
If ExpandList.Caption = "EXPAND" Then
Playlist(1).row = Playlist(0).row
UndoRow = Playlist(0).row
For i = 0 To 8

```

```

        UndoText(i) = Playlist(1).TextMatrix(Playlist(0).row, i)
    Next i
    Call DeletePlay(Playlist(0).row)
Else
    Playlist(0).row = Playlist(1).row
    UndoRow = Playlist(1).row
    For i = 0 To 8
        UndoText(i) = Playlist(1).TextMatrix(Playlist(0).row, i)
    Next i
    Call DeletePlay(Playlist(1).row)
End If

SongSelected = False
ElseIf SelList = 1 Then
    UndoEvent = 1
    SaveSearchList
    If searchlist.Rows <= 2 Then
        search.Caption = "Search Music Categories"
        For i = 0 To 2
            csearch(i).Caption = ""
        Next i
        searchlist.Rows = 1
        Call FormatHeaders
        searchlist.BackColorSel = searchlist.BackColorFixed
        searchlist.ForeColorSel = searchlist.ForeColorFixed
        csearch(0).Caption = "none"

        SearchSongs = 0
        searchflag = 0
        searchlist.Clear
        searchlist.Back Color = &H8000000E
        searchlist.Rows = 1
        AddList(0).Enabled = False
        AddList(1).Enabled = False
        CtrSrch.Enabled = False
        Organize.Enabled = False
    Else
        UndoEvent = 1
        X = searchlist.row
        'For j = X To searchlist.Rows - 1
        '    Stime(i) = Stime(i + 1)
        'Next j
        For i = 0 To 8
            UndoText(i) = searchlist.TextMatrix(X, i)
        Next i
        searchlist.RemoveItem searchlist.row
        SearchSongs = SearchSongs - 1
    End If
End If
Call CheckOnDeck
undo.Enabled = True
SongSelected = False
Exit Sub
ElseIf answer = vbNo Then

```

```

Exit Sub
End If

errorhandler:
Now.BackColor = &H800000F
Now.Enabled = False
PlayButton.Enabled = False
PlayButton.BackColor = &H800000F
MsgBox "You have no songs to delete!"
delete.Enabled = False
End Sub

Private Sub ExpandList_Click()
'expand the playlist to display all information

If ExpandList.Caption = "EXPAND" Then
cat1screen.Visible = False
Playlist(1).Visible = True
ExpandList.Caption = "SHRINK"
If maxed = True Then
Picture1.Left = 0
Picture1.Width = Screen2.Width - 195
SinglePlayTime.Left = 4680
Label5.Left = 6240
Playlist(0).Left = 0
Playlist(1).Left = 0
Label11.Left = 0.41 * Picture1.Width
Else
Picture1.Width = 11550
Picture1.Left = 0
SinglePlayTime.Left = 4680
Label5.Left = 6240
Playlist(0).Left = 0
Playlist(1).Left = 0
Label11.Left = 4200
End If

ExpandList.Left = 120 - 6720
AddList(0).Left = 1020 + 6720
AddList(1).Left = 1730 - 6720
RndMix.Left = 2430 - 6720
delete.Left = 3070 + 6720
Command1.Left = 3840 - 6720
Playlist(1).RowSel = Playlist(0).RowSel

Else
If maxed = True Then
Picture1.Left = 6720
Picture1.Width = Screen.Width - 6830
SinglePlayTime.Left = Screen.Wjdh - 100
Label5.Left = Screen.Width + 100

```

```

Else
    Picture1.Width = 4815
    Picture1.Left = 6720
    SinglePlayTime.Left = 4800
    Label5.Left = 6500

End If
Playlist(0).Left = 120
Playlist(1).Left = 120
cat1screen.Visible = True
Playlist(1).Visible = False
ExpandList.Caption = "EXPAND"
ExpandList.Left = 120
AddList(0).Left = 1020
AddList(1).Left = 1730
RndMix.Left = 2430
delete.Left = 3070
Command1.Left = 3840
Playlist(0).RowSel = Playlist(1).RowSel
Label1.Left = 1440
End If

AddList(0).Enabled = False
AddList(1).Enabled = False
End Sub

Private Sub FavHits_Click(Index As Integer)
    ButMem = FavHits(Index).Caption
    FavHitsFrm2.Visible = True
    FavHitsLab2.Visible = True
    FavHitsLab2.BackColor = FavHitsLab1.BackColor
    FavHitsLab2.Caption = FavHits(Index).Caption
    If PlayedSongs(1, 1, 1) <> "" Then
        Organize.Enabled = True
        For z = 1 To zed
            searchlist.AddItem PlayedSongs(1, z, 0) & Chr(9) & PlayedSongs(1, z, 1) & Chr(9) & PlayedSongs(1, z, 2) & Chr(9) &
            PlayedSongs(1, z, 3) & Chr(9) & PlayedSongs(1, z, 4) & Chr(9) & PlayedSongs(1, z, 5) & Chr(9) & PlayedSongs(1, z, 6) & Chr(9) &
            PlayedSongs(1, z, 7) & Chr(9) & PlayedSongs(1, z, 8)
            SearchSongs = SearchSongs + 1
            searchlist.row = SearchSongs
            For X = 0 To 8
                searchlist.Col = X
                searchlist.CellBackColor = PlayedSongs(1, z, 9)
            Next X

            ClrSrch.Enabled = True
        Next z
    Else
        MsgBox ("Sorry...You have no song selections defined as favorite hits.")
    End If
End Sub

```

```

Private Sub Form_Load()
Dim i As Integer
Dim running As Boolean
Screen2.WindowState = 2
maxed = True
Data1.DatabaseName = App.Path & "\mydata.mdb"
Data2.DatabaseName = App.Path & "\mydata.mdb"
Data3.DatabaseName = App.Path & "\mydata.mdb"
For j = 0 To 9
    csearch(i).Caption = ""
Next i
zed = 0
Speed = ""
channel = 1
SearchSongs = 0
PlaySongs = 0
Speed = "Any"
DataLocked = True
SongSelected = False
ScreenShow(1).BackColor = &HC0&
'assign buttons to color array for reference
For i = 0 To 35
    MnCatColor(i) = Category1(i).BackColor
Next i
If VoiceActivation = True Then
If Not IsDDWinRunning() Then
    running = StartDDWin()
If Not running Then
    MsgBox "Could not start dragon dictate", vbExclamation
End
End If
End If
DD.Attach = True
If FindVocabulary("Moaec") And Not FindGroup("Moaec", "ver1.0") Then
    On Error GoTo VocabAdd
DeleteVocabulary ("Moaec")
End If
VocabAdd:
If Not FindVocabulary("Moaec") Then
AddVocabulary "Moaec"
Call AddGroup("Moaec", "ver1.0")
Call AddGroup("Moaec", "Screen1")
Call AddGroup("Moaec", "Screen2")
Call AddGroup("Moaec", "Screen3")
Call AddGroup("Moaec", "Screen4")
Call AddWord("Moaec", "Screen2", "[classical]", "")
Call AddWord("Moaec", "Screen2", "[jazz]", "")
Call AddWord("Moaec", "Screen2", "[folk]", "")
Call AddWord("Moaec", "Screen2", "[oldies]", "")
Call AddWord("Moaec", "Screen2", "[country]", "")
Call AddWord("Moaec", "Screen2", "[pop]", "")
Call AddWord("Moaec", "Screen2", "[soul]", "")
Call AddWord("Moaec", "Screen2", "[R and B]", "")

```

**MOAEC MASTER CODE** (page 63)

Sunspot Software and Graphics  
303-805-7637

```

Call AddWord("Moaec", "Screen2", "[blues]", "")
Call AddWord("Moaec", "Screen2", "[calypso]", "")
Call AddWord("Moaec", "Screen2", "[disco]", "")
Call AddWord("Moaec", "Screen2", "[funk]", "")
Call AddWord("Moaec", "Screen2", "[rock]", "")
Call AddWord("Moaec", "Screen2", "[metal]", "")
Call AddWord("Moaec", "Screen2", "[top 40]", "")
Call AddWord("Moaec", "Screen2", "[rap]", "")
Call AddWord("Moaec", "Screen2", "[reggae]", "")
Call AddWord("Moaec", "Screen2", "[alternative]", "")
Call AddWord("Moaec", "Screen2", "[ethnic]", "")
Call AddWord("Moaec", "Screen2", "[religion]", "")
Call AddWord("Moaec", "Screen2", "[special events]", "")
Call AddWord("Moaec", "Screen2", "[funny]", "")
Call AddWord("Moaec", "Screen2", "[easy listening]", "")
Call AddWord("Moaec", "Screen2", "[favorite hits]", "")
Call AddWord("Moaec", "Screen2", "[special dance]", "")
Call AddWord("Moaec", "Screen2", "[special mixes]", "")
Call AddWord("Moaec", "Screen2", "[dance]", "")
Call AddWord("Moaec", "Screen2", "[energy]", "")
Call AddWord("Moaec", "Screen2", "[sound effects]", "")
Call AddWord("Moaec", "Screen2", "[sound tracks]", "")
Call AddWord("Moaec", "Screen2", "[television]", "")

Call AddWord("Moaec", "Screen2", "[Dance Mix]", "")
Call AddWord("Moaec", "Screen2", "[Clear]", "")
Call AddWord("Moaec", "Screen2", "[Undo]", "")

Call AddWord("Moaec", "Screen2", "[Search List]", "")
Call AddWord("Moaec", "Screen2", "[Play List]", "")
Call AddWord("Moaec", "Screen2", "[Search]", "")
Call AddWord("Moaec", "Screen2", "[Expand]", "")

Call AddWord("Moaec", "Screen2", "[Shrink]", "")

Call AddWord("Moaec", "Screen2", "[Load]", "")
Call AddWord("Moaec", "Screen2", "[Save]", "")
Call AddWord("Moaec", "Screen2", "[Next]", "")
Call AddWord("Moaec", "Screen2", "[Pick]", "")
Call AddWord("Moaec", "Screen2", "[Delete]", "")

Call AddWord("Moaec", "Screen2", "[Title]", "")
Call AddWord("Moaec", "Screen2", "[Artist]", "")
Call AddWord("Moaec", "Screen2", "[Date]", "")
Call AddWord("Moaec", "Screen2", "[Song Category]", "")
Call AddWord("Moaec", "Screen2", "[Dance Type]", "")
Call AddWord("Moaec", "Screen2", "[Music Style]", "")
Call AddWord("Moaec", "Screen2", "[Speed]", "")
Call AddWord("Moaec", "Screen2", "[Energy]", "")

Call AddWord("Moaec", "Screen2", "[Speed]", "")
Call AddWord("Moaec", "Screen2", "[Fast]", "")
Call AddWord("Moaec", "Screen2", "[Medium]", "")
Call AddWord("Moaec", "Screen2", "[Slow]", "")

```

MOAEC MASTER CODE (page 64)

Sunspot Software and Graphics  
303-805-7637

```

Call AddWord("Moaec", "Screen2", "[Time]", "")

Call AddWord("Moaec", "Screen2", "[OK]", "")
Call AddWord("Moaec", "Screen2", "[Begin Search]", "")
Call AddWord("Moaec", "Screen2", "[Cancel]", "")
Call AddWord("Moaec", "Screen2", "[Cancel]", "")
Call AddWord("Moaec", "Screen2", "[Cancel]", "")
Call AddWord("Moaec", "Screen2", "[minutes]", "")
Call AddWord("Moaec", "Screen2", "[Play]", "")
Call AddWord("Moaec", "Screen2", "[Now]", "")

```

```

Call AddWord("Moaec", "Screen2", "[screen 1]", "")
Call AddWord("Moaec", "Screen2", "[screen 2]", "")
Call AddWord("Moaec", "Screen2", "[screen 3]", "")
Call AddWord("Moaec", "Screen2", "[screen 4]", "")
End If
DD.Vocabulary = "Moaec"
DD.Group = "Screen2"
End If
End Sub

```

```
Private Sub Form_Unload(Cancel As Integer)
```

```

    End!tAll
End
End Sub

```

```
Private Sub Help_Click()
    SendKeys "{F1}"
End Sub

```

```
Private Sub Letters_Click(Index As Integer)
'type the letter pressed in the text field
If searchfield.Visible = True Then
    searchfield.SetFocus
    SendKeys LCase(Letters(Index).Caption)
    SendKeys "{tab}"
Else
    TimeInput.SetFocus
    SendKeys LCase(Letters(Index).Caption)
    SendKeys "{tab}"
End If

```

```
End Sub
```

```
Private Sub LoadPlay_Click()
Dim allCells1, allCells2 As String
Dim FileNum As Integer
Dim CurRow1, CurRow2, CurCol As Integer
Dim FileColors() As Variant
On Error GoTo errorHandler
GrayOut

```

```

If Playlist(0).Rows > 1 Then
  CurRow2 = Playlist(1).row
  CurRow1 = Playlist(0).row
  CurCol = 0
End If
response = MsgBox("Are you sure you want to replace the current Music Playlist?", 4, "Load Play List")
If response = vbNo Then
  Exit Sub
ElseIf response = vbYes Then
  'clear the playlists
  CommonDialog1.DefaultExt = "GDT"
  CommonDialog1.ShowOpen
  FileNum = FreeFile
  Open CommonDialog1.fileName For Input As #FileNum
  Input #FileNum, numRows
  ReDim FileColors(numRows + 1)
  Input #FileNum, allCells1
  Input #FileNum, allCells2
  ClearPlayList
  PlaySongs = 0
  SongsTime = 0
  NumSongs.Text = 0
  timebox.Text = Format(TimeSerial(0, 0, CLng(SongsTime)), "hh:mm:ss")
  SinglePlayTime.Text = "00:00:00"
  Playlist(0).AllowBigSelection = True
  Playlist(1).AllowBigSelection = True
  Playlist(0).Rows = numRows
  Playlist(0).row = 1
  Playlist(0).Col = 0
  Playlist(0).RowSel = numRows - 1
  Playlist(0).ColSel = 2
  Playlist(1).Rows = numRows
  Playlist(1).row = 1
  Playlist(1).Col = 0
  Playlist(1).RowSel = numRows - 1
  Playlist(1).ColSel = 8
  Playlist(0).Clip = allCells1
  Playlist(1).Clip = allCells2
  For i = 1 To numRows - 1
    Input #FileNum, FileColors(i)
    Playlist(0).row = i
    For j = 0 To 2
      Playlist(0).Col = j
      Playlist(0).CellBackColor = FileColors(i)
    Next j
    Playlist(1).row = i
    For k = 0 To 8
      Playlist(1).Col = k
      Playlist(1).CellBackColor = FileColors(i)
    Next k
    SongsTime = SongsTime + CLng(Val(Playlist(0).TextMatrix(i, 0)))
  Next i
  timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
  PlaySongs = PlaySongs + 1
  NumSongs.Text = PlaySongs

```

```

Next i

Close #FileNum
Playlist(0).AllowBigSelection = False
Playlist(1).AllowBigSelection = False
Playlist(0).row = CurRow1
Playlist(1).row = CurRow2
Playlist(0).Col = 0
Playlist(1).Col = 0
ExpandList.Enabled = True
delete.Enabled = True
Command1.Enabled = True
RndMix.Enabled = True
Now.Enabled = True
Now.BackColor = &HFF&
PlayButton.Enabled = True
PlayButton.BackColor = &HFF8080
SavePlay.Enabled = True
If SongPlaying = True Then
    Call CheckOnDeck
End If
CommonDialog1.fileName = ""
Exit Sub
End If

errorhandler:
If Err.Number = cdlCancel Then
    CommonDialog1.fileName = ""
Exit Sub
End If
MsgBox "Unknown error while loading file " & CommonDialog1.fileName

End Sub

Private Sub Mix_Click()
Dim RanPlace, RanPlace2 As Integer
Dim TempTime, TempTime2 As Integer
Dim MixCount As Integer
Dim TestSpeed As String
Dim LoopStop As Boolean
Dim slowcount, midcount, fastcount As Boolean
Dim FirstMedCount, medcount As Integer
'mix up the selected song list by categories
Mix.Enabled = False
If Playlist(0).Rows > 1 Then
    Playlist(0).Col = 0
    Playlist(1).Col = 0
    Playlist(0).ColSel = 2
    Playlist(1).ColSel = 8
End If
If SelList = 2 And Playlist(0).Rows > 1 Then

    MixCount = 0

```

```

medcount = 0
'disable once clicked
Mix.Enabled = False
Mix.BackColor = &H8000000F
AddList(0).Enabled = False
AddList(1).Enabled = False
FastSpeed = "FAST"
MidSpeed = "MEDIUM"
SlowSpeed = "SLOW"
fastcount = False
midcount = False
slowcount = False
For i = 1 To Playlist(0).Rows - 1
  TestSpeed = Playlist(i).TextMatrix(i, 7)
  If TestSpeed = "FAST" Then
    fastcount = True
  ElseIf TestSpeed = "MEDIUM" Then
    midcount = True
  ElseIf TestSpeed = "SLOW" Then
    slowcount = True
  End If
Next i
If slowcount = False Then
  If midcount = False Then
    MidSpeed = "FAST"
    SlowSpeed = "FAST"
  ElseIf fastcount = False Then
    FastSpeed = "MEDIUM"
    MidSpeed = "MEDIUM"
    SlowSpeed = "MEDIUM"
  Else
    FastSpeed = "FAST"
    MidSpeed = "FAST"
    SlowSpeed = "MEDIUM"
  End If
ElseIf midcount = False Then
  If fastcount = False Then
    FastSpeed = "SLOW"
    MidSpeed = "SLOW"
  End If
ElseIf fastcount = False Then
  If slowcount = False Then
    FastSpeed = "MEDIUM"
    SlowSpeed = "MEDIUM"
  End If
End If

For i = 1 To Playlist(0).Rows - 1
  TestSpeed = Playlist(i).TextMatrix(i, 7)
  If TestSpeed = MidSpeed Then
    medcount = medcount + 1
  End If
Next i

```

```

Do Until LoopStop = True
i = 1
MixCount = 0
LoopStop = True

For i = 1 To Playlist(0).Rows - 1
  If MixCount > 4 Then MixCount = 0
  Playlist(1).row = i
  TestSpeed = Playlist(1).TextMatrix(i, 7)
  If TestSpeed = FastSpeed And MixCount < 3 Then
    MixCount = MixCount + 1
  ElseIf TestSpeed = SlowSpeed And MixCount >= 3 Then
    MixCount = MixCount + 1
  Else
    Playlist(0).RowPosition(i) = Playlist(0).Rows - 1
    Playlist(1).RowPosition(i) = Playlist(1).Rows - 1
    medcount = medcount + 1
    LoopStop = False
  End If
  If j >= Playlist(1).Rows - medcount Then
    LoopStop = True
  End If

Next i
Loop
For j = 0 To 1
  Playlist(j).row = 1
  Playlist(j).BackColorSel = Playlist(j).CellBackColor
  Playlist(j).ForeColorSel = Playlist(j).CellForeColor
Next j
delete.Enabled = False
Else
  Speed = "MIXED"
  Mix.Enabled = False
  Mix.BackColor = &H8000000F
  For i = 0 To 3
    SongSpeed(i).BackColor = &H8000000F
    SongSpeed(i).Enabled = False
    AllSpeeds.BackColor = &H8000000F
    AllSpeeds.Enabled = False
  Next i
End If
If SongPlaying = True Then
  Call CheckOnDeck
End If
End Sub

Private Sub Now_Click()

Dim CurControl As Integer

```

```
If SelList = 1 Then CurControl = searchlist.row
If SelList = 2 Then CurControl = Playlist(0).row
```

```
Call StartPlay(CurControl. SelList)
```

```
End Sub
```

```
Private Sub Organize_Click()
'enable the sorting buttons
sortstat = True
search.Enabled = False
For i = 1 To 8
    SearchCat(i).Enabled = True
Next i
End Sub
```

```
Private Sub OrgLst_Click(Index As Integer)
'sort the searchlist by category
OrgLst(0).Enabled = False
OrgLst(1).Enabled = False
Organize.Enabled = True
search.Enabled = True
sortstat = False
searchlist.Sort = Index - 1
For i = 1 To 8
    SearchCat(i).Enabled = False
Next i
End Sub
```

```
Private Sub PlayButton_Click()

    Call StartPlay(1, 2)

End Sub
```

```
Private Sub Playlist_Click(Index As Integer)
If Playlist(Index).Rows > 1 Then
SelList = 2
SongSelected = True
If Playlist(0).Rows = 1 Then Exit Sub
SinglePlayTime.Text = Format(TimeSerial(0, 0, Val(Playlist(Index).TextMatrix(Playlist(Index).row, 0))), "hh:mm:ss")
AddList(1).Enabled = False
AddList(0).Enabled = True
```

```
If Index = 0 Then
    Playlist(1).row = Playlist(0).row
    Playlist(1).Col = Playlist(0).Col
End If
If Playlist(1).Col = 0 And Playlist(1).CellBackColor <> &HC0& Then ' if the song is flagged add it to the top of the favhits list
    Playlist(0).SelectionMode = flexSelectionFree
    Playlist(1).SelectionMode = flexSelectionFree
    Playlist(0).CellBackColor = &H80000008
```

```

For i = 1 To zed
  If PlayedSongs(1, i, 1) = Playlist(Index).TextMatrix(Playlist(Index).row, 1) Then
    FavHitsFinder = i
  End If
Next i
For i = (FavHitsFinder - 1) To 1 Step -1
  For j = 0 To 9
    PlayedSongs(1, i + 1, j) = PlayedSongs(1, i, j)
  Next j
Next i
Playlist(0).Col = 1
Playlist(0).BackColorSel = Playlist(0).CellBackColor
Playlist(0).ForeColorSel = Playlist(0).CellForeColor
Playlist(1).Col = 1
Playlist(1).BackColorSel = Playlist(1).CellBackColor
Playlist(1).ForeColorSel = Playlist(1).CellForeColor
For i = 0 To 8
  selsong(i) = Playlist(1).TextMatrix(Playlist(1).row, i)
  PlayedSongs(1, 1, i) = Playlist(1).TextMatrix(Playlist(1).row, i)
Next i
Playlist(1).Col = 1
Playlist(0).Col = 1
PlayedSongs(1, 1, 9) = Playlist(1).CellBackColor
Else
  Playlist(Index).SetFocus
  delete.Enabled = True
  Playlist(0).Col = 1
  Playlist(0).ColSel = 2
  Playlist(1).Col = 1
  Playlist(1).ColSel = 8
  For i = 0 To 1
    Playlist(i).BackColorSel = &H80000008
    Playlist(i).ForeColorSel = &H8000000E
  Next i
  If Index = 1 Then
    Playlist(0).row = Playlist(1).row
    Playlist(0).RowSel = Playlist(1).RowSel
    Playlist(0).Col = 1
    Playlist(0).ColSel = 2
  Else
    Playlist(1).row = Playlist(0).row
    Playlist(1).RowSel = Playlist(0).RowSel
    Playlist(1).Col = 1
    Playlist(1).ColSel = 8
  End If
  Now.Enabled = True
  Now.BackColor = &HFF&
  If searchlist.Rows = 1 Then
    Exit Sub
  End If
  searchlist.BackColorSel = searchlist.CellBackColor
  searchlist.ForeColorSel = searchlist.CellForeColor
End If

```

```

End If
End Sub

Private Sub Playlist_DblClick(Index As Integer)
Dim X As Integer
If Index = 0 Then
    Playlist(1).row = Playlist(0).row
    Playlist(1).Col = Playlist(0).Col

End If
If Playlist(1).Rows > 1 And Playlist(1).Col <> 0 Then
If Index = 1 Then
    Playlist(0).row = Playlist(1).row

End If

If Playlist(0).row = 1 Then
    MsgBox "the Song you want to move is already next!"

Else

    X = Playlist(0).row
    For Y = 0 To 8
        selsong(Y) = Playlist(1).TextMatrix(X, Y)
    Next Y
    oldcolor2 = Playlist(0).CellBackColor
    oldcolor3 = Playlist(0).CellForeColor
    undo.Enabled = True
    UndoEvent = 0
    SavePlayList
    For i = X - 1 To 1 Step -1
        Playlist(0).row = i
        Playlist(1).row = i
        oldcolor = Playlist(0).CellBackColor
        For j = 0 To 2
            Playlist(0).TextMatrix(i - 1, j) = Playlist(0).TextMatrix(i, j)
            Playlist(0).row = i - 1
            Playlist(0).Col = j
            'change color
            Playlist(0).CellBackColor = oldcolor
        Next j
        For j = 0 To 8
            Playlist(1).TextMatrix(i - 1, j) = Playlist(1).TextMatrix(i, j)
            Playlist(1).row = i - 1
            Playlist(1).Col = j
            'change color
            Playlist(1).CellBackColor = oldcolor
        Next j
    Next i
    For j = 0 To 2
        Playlist(0).TextMatrix(1, j) = selsong(j)
        Playlist(0).row = 1
        Playlist(0).Col = j
        Playlist(0).CellBackColor = oldcolor2

```

```

        Playlist(0).BackColorSel = oldcolor2
        Playlist(0).ForeColorSel = oldcolor3
    Next j
    For j = 0 To 8
        Playlist(1).TextMatrix(1, j) = selsong(j)
        Playlist(1).row = i
        Playlist(1).Col = j
        Playlist(1).CellBackColor = oldcolor2
        Playlist(1).BackColorSel = oldcolor2
        Playlist(1).ForeColorSel = oldcolor3
    Next j
End If
Playlist(0).SelectionMode = flexSelectionFree
Playlist(1).SelectionMode = flexSelectionFree
Call CheckOnDeck
End If
End Sub

Private Sub Playlist_Scroll(Index As Integer)
    'make the playlists scroll equally
    Select Case Index
    Case 0
        Playlist(1).TopRow = Playlist(0).TopRow
    Case 1
        Playlist(0).TopRow = Playlist(1).TopRow
    End Select
End Sub

Private Sub PlayTime_Click()
    Dim boxcaption As String
    On Error GoTo errorhandler
    'show the keyboard
    TimeFrame.Visible = True
    keyboard.Visible = True
    AllSpeeds.Visible = True
    GrayOut
    'pop up the time selection query box
    CurScreen = "Time"
    If Speed <> "Any" Then
        boxcaption = "Please enter the number of minutes you would like " & Speed & " " & SelCat1 & " " & "music to play:"
    Else
        boxcaption = "Please enter the number of minutes you would like " & SelCat1 & " music to play:"
    End If
    TimeLabel.Caption = boxcaption
    TimeInput.SetFocus
Exit Sub
'write the variables to the play boxes with colors
'disable button once clicked

errorhandler:
    MsgBox "You did not enter a valid time."
    Exit Sub

End Sub

```

```

Private Sub RndMix_Click()
    Dim color As Long
    If Playlist(0).Rows > 1 Then
        Randomize
        Playlist(0).SelectionMode = flexSelectionFree
        For i = 1 To Playlist(0).Rows - 1
            k = Rnd()
            Y = Int(Playlist(0).Rows * k)
            If Y <= 0 Then
                Playlist(0).RowPosition(i) = Y
                Playlist(1).RowPosition(i) = Y
            End If
        Next i
        Playlist(0).row = 1
        Playlist(1).row = 1
        Playlist(0).Col = 1
        Playlist(1).Col = 1
        Playlist(0).BackColorSel = Playlist(0).CellBackColor
        Playlist(1).BackColorSel = Playlist(0).CellBackColor
        CheckOnDeck
    End If
End Sub

Private Sub SavePlay_Click()
    Dim allCells1, allCells2, colors As String
    Dim FileNum, numRows As Integer
    Dim CurRow1, CurRow2, CurCol As Integer
    Dim FileColors() As Variant

    CurRow2 = Playlist(1).row
    CurRow1 = Playlist(0).row
    CurCol = 0
    On Error GoTo errorhandler
    response = MsgBox("Are you Sure you want to save the current Music Play List as a file", 4, "Save Play List")
    If response = vbNo Then
        Exit Sub
    ElseIf response = vbYes Then
        GrayOut
        CommonDialog1.DefaultExt = "GDT"

        CommonDialog1.ShowSave
        Playlist(0).AllowBigSelection = True
        Playlist(0).row = 1
        Playlist(0).Col = 0
        Playlist(0).RowSel = Playlist(0).Rows - 1
        Playlist(0).ColSel = 2
        allCells1 = Playlist(0).Clip
        Playlist(1).AllowBigSelection = True
        Playlist(1).row = 1
        Playlist(1).Col = 0
        Playlist(1).RowSel = Playlist(1).Rows - 1
        Playlist(1).ColSel = 8
    End If
errorhandler:

```

```

allCells2 = Playlist(1).Clip
numRows = Playlist(0).Rows
ReDim FileColors(Playlist(0).Rows + 1)
FileNum = FreeFile
Open CommonDialog1.fileName For Output As #FileNum
Write #FileNum, numRows
Write #FileNum, allCells1
Write #FileNum, allCells2
For i = 1 To Playlist(0).Rows - 1
    Playlist(0).row = i
    FileColors(i) = Playlist(0).CellBackColor
    Write #FileNum, FileColors(i)
Next i

Close #FileNum
Playlist(1).AllowBigSelection = False
Playlist(0).AllowBigSelection = False
Playlist(0).row = CurRow1
Playlist(1).row = CurRow2
Playlist(0).Col = 0
Playlist(1).Col = 0
Exit Sub
End If

errorhandler:
If Err.Number = cd!Cancel Then Exit Sub
MsgBox "Unknown error while saving file " & CommonDialog1.fileName

End Sub

Private Sub ScreenShow_Click(Index As Integer)
Dim i As Integer
On Error Resume Next
If (SelCat1 = "" And Index = 2) Then
    MsgBox ("Please select a main category from screen 2 before viewing this screen !!!")
    Exit Sub
End If
Category(1).Visible = False
cat1count = 0
'disable speed buttons since switching to screen 3
For i = 0 To SongSpeed.count - 1
    AllSpeeds.Enabled = False
    SongSpeed(i).Enabled = False
    SongSpeed(i).BackColor = &H8000000F
    AllSpeeds.BackColor = &H8000000F
Next i
Mix.Enabled = False
PlayTime.Enabled = False
Mix.BackColor = &H8000000F
PlayTime.BackColor = &H8000000F
For i = 0 To 4
    Screen1.ScreenShow(i).BackColor = &H8000000F
    ScreenShow(i).BackColor = &H8000000F
    ScreenShow(i).ForeColor = &H80000012

```

```

Next i
If Index <> 0 And Index <> 3 Then
  ScreenShow(Index).BackColor = &HC0&
  ScreenShow(Index).ForeColor = &H800000E
End If
Select Case Index
  Case 0

    On Error Resume Next
    Screen2.DD.Group = "Screen1"
    Screen1.Show
    If Screen1.WindowState <> 2 Then Screen1.WindowState = 2

    Screen2.Hide
    cat1screen.Visible = True
    cat2screen.Visible = False
    For i = 0 To 4
      Screen1.ScreenShow(i).BackColor = &H800000F
      Screen1.ScreenShow(i).ForeColor = &H8000012
    Next i
    Screen1.ScreenShow(Index).BackColor = &HC0&
    Screen1.ScreenShow(Index).ForeColor = &H800000E
    Exit Sub

  Case 1
    Screen2.DD.Group = "Screen2"
    Screen1.Hide
    Screen2.Show
    If Screen2.WindowState <> 2 Then Screen2.WindowState = 2

    cat1screen.Visible = True
    cat2screen.Visible = False
    FavHitsScrn.Visible = False

  Case 2
    Screen2.DD.Group = "Screen2"
    SelCat1 = MemCat
    Screen1.Hide
    Screen2.Show
    If Screen2.WindowState <> 2 Then Screen2.WindowState = 2
    cat1screen.Visible = False
    cat2screen.Visible = True
    FavHitsScrn.Visible = False

  Case 3
    Screen2.DD.Group = "Screen4"
    Recorder.ScreenShow(Index).BackColor = &HC0&
    Recorder.ScreenShow(Index).ForeColor = &H800000E
    Screen1.Hide
    Screen2.Hide
    Recorder.Show
    If Recorder.WindowState <> 2 Then Recorder.WindowState = 2

    Recorder.Refresh
    cat1screen.Visible = True
    cat2screen.Visible = False
    FavHitsScrn.Visible = False

```

End Select

'make the button pressed the right color

End Sub

```
Private Sub search_Click()
    search.Enabled = False
    GrayOut
    For i = 1 To 8
        SearchCat(i).Enabled = True
    Next i
End Sub
```

```
Private Sub SearchCat_Click(Index As Integer)
    Dim QuestCat As String
    If sortstat = False Then
        'assign the search button caption to the primary search variable
```

```
        colnum = Index
        keyboard.Visible = True
        Cat1 = SearchCat(Index).Tag
        QuestCat = SearchCat(Index).Caption
        CurScreen = "SearchCat"
        'Load search screen to begin search
```

```
        SearchScreen.Visible = True
        SearchQuiry.Caption = "Please enter the " & QuestCat & " you would like to search for:"
        searchfield.SetFocus
```

```
    Else
        searchlist.Col = Index
        For i = 1 To 8
            SearchCat(i).Enabled = False
        Next i
        OrgLst(i).Enabled = True
        OrgLst(1).Enabled = True
        Organize.Enabled = False
    End If
```

End Sub

```
Private Sub searchdate_Click(Index As Integer)
    Dim finalfield(10) As String
    Dim tempfield(9) As String
    If searchdate(Index).Caption = ButMem Then
        MsgBox ("You just picked that button...Please pick another.")
        Exit Sub
    End If
    ButMem = searchdate(Index).Caption
```

```
Cat1 = "Main1"
AddList(0).Enabled = True
```

```

AddList(1).Enabled = True
CirSrch.Enabled = True
Organize.Enabled = True
    Category(1).Caption = searchdate(Index).Caption
    Category(1).Visible = True
'fill search screen with selections from the categories
MousePointer = 11
SearchSongs = searchlist.Rows - 1
Data1.Refresh
Data3.Refresh
Data1.Recordset.MoveLast
Data1.Recordset.MoveFirst
Data3.Recordset.MoveLast
Data3.Recordset.MoveFirst
If SelCat1 = "SPMIX" Or SelCat1 = "Special Mixes" Then
    Cat1 = "Main3"
    SelCat1 = "SPMIX"

ElseIf SelCat1 = "EN" Or SelCat1 = "Energy" Then
    Cat1 = "Main2"
    SelCat1 = "EN"
ElseIf SelCat1 = "EL" Or SelCat1 = "Easy Listening" Then
    Cat1 = "Mstyle"
    SelCat1 = "EL"
ElseIf SelCat1 = "Special Dance" Or SelCat1 = "SPD" Then
    Cat1 = "Dtype"
    SelCat1 = "SPD"
End If
For i = 1 To Data1.Recordset.RecordCount
    DoEvents
    'if the data base field matches search criteria, write it to the searchlist
    If UCase(Data1.Recordset.Fields(Cat1)) = UCase(Trim(SelCat1)) And Data1.Recordset.Fields("date") >=
searchdate(Index).Tag And Data1.Recordset.Fields("date") <= (searchdate(Index).Tag + 9) Then
        Data3.Recordset.MoveFirst
        If IsNull(Data1.Recordset.Fields("Main1")) Then
            Mcat1 = "none listed"
            MnCatColor(SearchSongs) = &H80000005
        Else
            Mcat1 = Data1.Recordset.Fields("Main1")
            Data3.Recordset.FindFirst "Main1 = '" & Mcat1 & "'"
            MnCatColor(SearchSongs) = Val(Data3.Recordset.Fields("colorID"))
            finalfield(9) = Val(Data3.Recordset.Fields("colorID"))
        End If
        If IsNull(Data1.Recordset.Fields("time")) Then
            finalfield(0) = 300
        Else
            finalfield(0) = Data1.Recordset.Fields("time")
        End If
        If IsNull(Data1.Recordset.Fields("Title")) Then
            finalfield(1) = "NL"
        Else
            finalfield(1) = Data1.Recordset.Fields("Title")
        End If
        If IsNull(Data1.Recordset.Fields("Artist")) Then

```

```

        finalfield(2) = "NL"
    Else
        finalfield(2) = Data1.Recordset.Fields("Artist")
    End If
    If IsNull(Data1.Recordset.Fields("Date")) Then
        finalfield(3) = "NL"
    Else
        finalfield(3) = Data1.Recordset.Fields("Date")
    End If
    If IsNull(Data1.Recordset.Fields("Main1")) Then
        tempfield(4) = "NL"
    Else
        tempfield(4) = Data1.Recordset.Fields("Main1")
    End If
    If IsNull(Data1.Recordset.Fields("Mstyle")) Then
        tempfield(5) = "NL"
    Else
        tempfield(5) = Data1.Recordset.Fields("Mstyle")
    End If
    If IsNull(Data1.Recordset.Fields("Dtype")) Then
        tempfield(6) = "NL"
    Else
        tempfield(6) = Data1.Recordset.Fields("Dtype")
    End If
    If IsNull(Data1.Recordset.Fields("Speed")) Then
        tempfield(7) = "NL"
    Else
        tempfield(7) = Data1.Recordset.Fields("Speed")
    End If
    If IsNull(Data1.Recordset.Fields("Energy")) Then
        tempfield(8) = ""
    Else
        tempfield(8) = Data1.Recordset.Fields("Energy")
    End If
    For X = 4 To 8
        Data2.RecordSource = X
        Data2.Refresh
        Data2.Recordset.MoveLast
        Data2.Recordset.MoveFirst
        Data2.Recordset.FindFirst "Tag = " & tempfield(X) & ""
        finalfield(X) = Data2.Recordset.Fields("Label")
        Data2.Recordset.Close
    Next X
    searchlist.AddItem finalfield(0) & Chr(9) & finalfield(1) & Chr(9) & finalfield(2) & Chr(9) & finalfield(3) & Chr(9) &
finalfield(4) & Chr(9) & finalfield(5) & Chr(9) & finalfield(6) & Chr(9) & finalfield(7) & Chr(9) & finalfield(8)
    SearchSongs = SearchSongs + 1
    Data3.Recordset.MoveFirst

    searchlist.row = SearchSongs
    For z = 0 To 8
        searchlist.Col = z
        searchlist.CellBackColor = finalfield(9)
    Next z
    searchlist.BackColorSel = finalfield(9)

```

```

        searchlist.ForeColorSel = searchlist.ForeColor
        search.Caption = "Narrow Search Results"
        searchflag = 1
    End If
    flag = True
    'move to the next data row in data base
    Data1.Recordset.MoveNext
Next i
Data1.Recordset.Close
Data3.Recordset.Close

```

```

MousePointer = 0

```

```

End Sub

```

```

Private Sub searchfield_Change()
    'SendKeys "{tab}"
End Sub

```

```

Private Sub searchlist_Click()
    If searchlist.RowSel > 0 Then
        Now.BackColor = &HFF&
        Now.Enabled = True
        SelList = 1
        SongSelected = True
        If searchlist.Rows = 1 Then Exit Sub
        FavHitsLab1.BackColor = searchlist.CellBackColor
        FavHitsLab2.BackColor = searchlist.CellBackColor
        For i = 0 To 5
            FavHits(i).BackColor = searchlist.CellBackColor
        Next i
        If searchlist.Col = 0 And searchlist.CellBackColor <> &HC0& Then ' if the song is flagged add it to the top of the favhits list
            searchlist.SelectionMode = flexSelectionFree
            searchlist.CellBackColor = &H80000008
            For i = 1 To zed
                If PlayedSongs(1, i, 1) = searchlist.TextMatrix(searchlist.row, 1) Then
                    FavHitsFinder = i
                End If
            Next i
            If FavHitsFinder = zed Then FavHitsFinder = FavHitsFinder + 1
            For i = (FavHitsFinder - 1) To 1 Step -1
                For j = 0 To 9
                    PlayedSongs(1, i + 1, j) = PlayedSongs(1, i, j)
                Next j
            Next i
            searchlist.Col = 1
            searchlist.BackColorSel = searchlist.CellBackColor
            searchlist.ForeColorSel = searchlist.CellForeColor
            For i = 0 To 8
                selSong(i) = searchlist.TextMatrix(searchlist.row, i)
                PlayedSongs(1, 1, i) = searchlist.TextMatrix(searchlist.row, i)
            Next i
            searchlist.Col = 1

```

```

    PlayedSongs(1, 1, 9) = searchlist.CellBackColor
Else
    searchlist.SetFocus
    AddList(0).Enabled = True
    AddList(1).Enabled = True
    delete.Enabled = True
    searchlist.Col = 1
    searchlist.ColSel = 8
    searchlist.BackColorSel = &H80000008
    searchlist.ForeColorSel = &H8000000E

    If Playlist(0).Rows > 1 Then
        Playlist(0).BackColorSel = Playlist(0).CellBackColor
        Playlist(0).ForeColorSel = Playlist(0).CellForeColor
        Playlist(1).BackColorSel = Playlist(1).CellBackColor
        Playlist(1).ForeColorSel = Playlist(1).CellForeColor
    End If
End If
End If
End Sub

Private Sub searchlist_DblClick()
    Dim flag As Boolean
    flag = False
    undo.Enabled = True
    UndoEvent = 0
    If Playlist(0).Rows = 1 Then
        numRows = 0
    Else
        SavePlayList
    End If

    If searchlist.Rows > 1 And searchlist.Col <> 0 Then

        FavHitsLab1.BackColor = searchlist.CellBackColor
        For i = 0 To 5
            FavHits(i).BackColor = searchlist.CellBackColor
        Next i
        PlaySongs = PlaySongs + 1

        For j = 1 To zed
            If searchlist.TextMatrix(searchlist.row, 1) = PlayedSongs(1, i, 1) Then
                flag = True
            End If
        Next j
        If flag = False Then
            zed = zed + 1
            For i = 0 To 8
                PlayedSongs(1, zed, i) = searchlist.TextMatrix(searchlist.row, i)
            Next i
            PlayedSongs(1, zed, 9) = searchlist.CellBackColor
        End If
        For i = 0 To 8

```

```

    selsong(i) = searchlist.TextMatrix(searchlist.row, i)
Next i
Playlist(0).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2)
Playlist(1).AddItem selsong(0) & Chr(9) & selsong(1) & Chr(9) & selsong(2) & Chr(9) & selsong(3) & Chr(9) & selsong(4) &
Chr(9) & selsong(5) & Chr(9) & selsong(6) & Chr(9) & selsong(7) & Chr(9) & selsong(8)
'add a song to the total to be played

NumSongs.Text = PlaySongs
Playlist(1).row = Playlist(1).Rows - 1
Playlist(0).row = Playlist(0).Rows - 1
'add the song time to the play time box
SongsTime = SongsTime + CLng(Val(searchlist.TextMatrix(searchlist.row, 0)))
textbox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
For z = 0 To 2
    Playlist(0).Col = z
    Playlist(0).CellBackColor = searchlist.CellBackColor
    Playlist(0).BackColorSel = searchlist.CellBackColor
    Playlist(0).ForeColorSel = searchlist.CellForeColor
Next z
For z = 0 To 8
    Playlist(1).Col = z
    Playlist(1).CellBackColor = searchlist.CellBackColor
    Playlist(1).BackColorSel = searchlist.CellBackColor
    Playlist(1).ForeColorSel = searchlist.CellForeColor
Next z
If Playlist(0).row = 1 Then CheckOnDeck
delete.Enabled = True
RndMix.Enabled = True
ExpandList.Enabled = True
SavePlay.Enabled = True
Command1.Enabled = True
If IsNull(channel) Then
    channel = 1
    OtherChannel = 2
End If
Now.BackColor = &HFF&
Now.Enabled = True
PlayButton.Enabled = True
PlayButton.BackColor = &HFF8080
End If

End Sub

Private Sub searchlist_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
Dim ScrollWidth As Integer
Dim ButtonWidth As Integer
ButtonWidth = 1080
ScrollWidth = 400
If (X > searchlist.Width - ScrollWidth) And (searchlist.Height / searchlist.RowHeightMin < searchlist.Rows) Then
    SearchCat(8).Width = ButtonWidth - ScrollWidth - 200 + (HeadExpand * 44)
Else
    SearchCat(8).Width = ButtonWidth + (HeadExpand * 44)
End If
End Sub

```

```

Private Sub SongSpeed_Click(Index As Integer)
'select speed category
Speed = SongSpeed(Index).Caption
'disable speed buttons
For i = 0 To SongSpeed.count - 1
  AllSpeeds.Visible = True
  AllSpeeds.Enabled = False
  SongSpeed(i).Enabled = False
  SongSpeed(i).BackColor = &H8000000F
  AllSpeeds.BackColor = &H8000000F
Next i

'enable time selection buttons
Mix.Enabled = False
Mix.BackColor = &H8000000F
PlayTime.Enabled = True
PlayTime.BackColor = CatColor
cat1count = 0
End Sub

Private Sub spacebar_Click()
If searchfield.Visible = True Then
  searchfield.SetFocus
  searchfield.Text = searchfield.Text + " "
  SendKeys "{end}"
  SendKeys "{tab}"
Else
  TimeInput.SetFocus
  TimeInput.Text = TimeInput.Text + " "
  SendKeys "{end}"
  SendKeys "{tab}"
End If
End Sub

Private Sub Text1_Change()
End Sub

Private Sub TimeCancel_Click()
TimeFrame.Visible = False
keyboard.Visible = False
CancelSearch = True
End Sub

Private Sub TimeInput_Change()
'SendKeys "{tab}"
End Sub

Private Sub TimeOK_Click()
Dim TempTime, TotalTime, TimeCount As Long
Dim selection, Mcat1 As String
Dim timearray(3000, 10) As Variant

```

```

Dim MixCount As Integer
Dim tempfield(9) As String
Dim position As Integer
Dim rndcount As Integer
On Error GoTo errorhandler
MousePointer = 11
searchflag = 0
cat1count = 0
FastSpeed = "FAST"
SlowSpeed = "SLOW"
MidSpeed = "MEDIUM"
CancelSearch = False
For j = 0 To 3
    SongSpeed(i).Enabled = False
    SongSpeed(i).BackColor = &H8000000F
    AllSpeeds.BackColor = &H8000000F
    AllSpeeds.Enabled = False
Next i
MixCount = 0
flag = True
i = 0
keyboard.Visible = False
If TimeInput.Text <> "" Then
    TotalTime = CLng(Val(TimeInput.Text) * 60)
    PlayTime.Enabled = False
    PlayTime.BackColor = &H8000000F
    Mix.BackColor = &H8000000F
    'search the database for songs until the time is up
    Data1.Refresh
    Data3.Refresh
    'FIND THE SONG CATEGORY TAG THAT MATCHES THE BUTTON
    If Cat1 = "Dtype" Then
        Data2.RecordSource = 6

    Else
        Data2.RecordSource = 4
    End If
    Data2.Refresh
    Data3.Refresh
    Data2.Recordset.MoveLast
    Data3.Recordset.MoveLast
    Data2.Recordset.MoveFirst
    Data3.Recordset.MoveFirst
    Data2.Recordset.FindFirst "Label = "" & SelCat1 & ""
    SelTag = Data2.Recordset.Fields("Tag")
    SelCat1 = SelTag
    If SelCat1 = "SPMIX" Then
        Cat1 = "Main3"
        MainCount = 4
    ElseIf SelCat1 = "EN" Then
        Cat1 = "Main2"
        MainCount = 3
    ElseIf SelCat1 = "EL" Then

```

```

    Cat1 = "Mstyle"
End If

If Speed <> "MIXED" And Speed <> "Any" Then
    Data2.RecordSource = 7
    Data2.Refresh
    Data2.Recordset.MoveFirst
    Data3.Recordset.MoveFirst
    Data2.Recordset.FindFirst "Label LIKE '*' & Speed & '*'"
    SelTag = Data2.Recordset.Fields("Tag")
    Speed = SelTag
End If
Data1.Refresh
Data1.Recordset.MoveLast
Data1.Recordset.MoveFirst
Data1.Recordset.FindFirst Cat1 & " like '" & SelCat1 & "' and Speed = 'S'"
If Data1.Recordset.NoMatch Then
    Data1.Refresh
    Data1.Recordset.MoveLast
    Data1.Recordset.MoveFirst
    Data1.Recordset.FindFirst Cat1 & " like '" & SelCat1 & "' and Speed = 'M'"
    If Data1.Recordset.NoMatch Then
        SlowSpeed = "FAST"
        MidSpeed = "FAST"
    Else
        SlowSpeed = "MEDIUM"
        MidSpeed = "FAST"
    End If
End If
End If
undo.Enabled = True
UndoEvent = 0
If Playlist(0).Rows = 1 Then
    numRows = 0
Else
    SavePlayList
End If
MainLoop:
    DoEvents
    position = 0
    Data1.Recordset.MoveLast
    Data3.Recordset.MoveLast
    Data1.Recordset.MoveFirst
    Data3.Recordset.MoveFirst
    If Speed <> "Any" And Speed <> "MIXED" Then
        Data1.Recordset.FindLast Cat1 & " like '" & SelCat1 & "' and Speed = '" & Speed & "'"
    Else
        Data1.Recordset.FindLast Cat1 & " LIKE '" & SelCat1 & "'"
    End If
    If Data1.Recordset.NoMatch Then flag = False
    final = Data1.Recordset.AbsolutePosition
    Data1.Recordset.MoveFirst
    If flag = True Then

        Do Until position = final

```

```

DoEvents
If Speed <> "Any" And Speed <> "MIXED" Then
  Data1.Recordset.FindNext Cat1 & " LIKE " & SelCat1 & "" and Speed = "" & Speed & ""
Else

  Data1.Recordset.FindNext Cat1 & " LIKE " & SelCat1 & ""
End If
If IsNull(Data1.Recordset.Fields("time")) Then
  timearray(i, 0) = 300
Else
  timearray(i, 0) = Data1.Recordset.Fields("time")
End If
If IsNull(Data1.Recordset.Fields("Title")) Then
  timearray(i, 1) = "NL"
Else
  timearray(i, 1) = Data1.Recordset.Fields("Title")
End If
If IsNull(Data1.Recordset.Fields("Artist")) Then
  timearray(i, 2) = "NL"
Else
  timearray(i, 2) = Data1.Recordset.Fields("Artist")
End If
If IsNull(Data1.Recordset.Fields("Date")) Then
  timearray(i, 3) = "NL"
Else
  timearray(i, 3) = Data1.Recordset.Fields("Date")
End If
If IsNull(Data1.Recordset.Fields("Main1")) Then
  tempfield(4) = "NL"
Else
  tempfield(4) = Data1.Recordset.Fields("Main1")
End If
If IsNull(Data1.Recordset.Fields("Mstyle")) Then
  tempfield(5) = "NL"
Else
  tempfield(5) = Data1.Recordset.Fields("Mstyle")
End If
If IsNull(Data1.Recordset.Fields("Dtype")) Then
  tempfield(6) = "NL"
Else
  tempfield(6) = Data1.Recordset.Fields("Dtype")
End If
If IsNull(Data1.Recordset.Fields("Speed")) Then
  tempfield(7) = "NL"
Else
  tempfield(7) = Data1.Recordset.Fields("Speed")
End If
If IsNull(Data1.Recordset.Fields("Energy")) Then
  tempfield(8) = ""
Else
  tempfield(8) = Data1.Recordset.Fields("Energy")
End If
For X = 4 To 8
  Data2.RecordSource = X

```

```

Data2.Refresh
Data2.Recordset.MoveLast
Data2.Recordset.MoveFirst
Data2.Recordset.FindFirst "Tag = " & tempfield(X) & ""
timearray(i, X) = Data2.Recordset.Fields("Label")

Next X 'ReDim timearray(i, 10)
position = Data1.Recordset.AbsolutePosition
'assign song color to tracking array
Data3.Recordset.MoveFirst
Mcat1 = Data1.Recordset.Fields("Main1")
Data3.Recordset.FindFirst "Main1 = " & Mcat1 & ""
timearray(i, 9) = Val(Data3.Recordset.Fields("colorID"))
i = i + 1
If CancelSearch = True Then
MousePointer = 0
Data1.Recordset.Close
Data2.Recordset.Close
Data3.Recordset.Close
SavePlay.Enabled = False
TimeFrame.Visible = False
Speed = "Any"
TimeInput.Text = ""
Exit Sub
End If
Loop
End If
If SelCat1 = "SPMIX" Then
Call CheckMain(Cat1)
If MainCount < 8 Then GoTo MainLoop
End If
MainCount = 0

Data1.Recordset.Close
Data2.Recordset.Close
Data3.Recordset.Close

If IsEmpty(timearray(0, 1)) Then
' = "" Then
MsgBox "You do not have enough Music downloaded in the LP MOAEC Database to fill your request. Please Go To Screen
4 and Select the Button, Music Available to Download and place your orders with Looney Productions at T# 781-863-2203."
Speed = "Any"
MousePointer = 0
TimeFrame.Visible = False
TimeInput.Text = ""
Exit Sub
ElseIf Speed = "MIXED" And i < 4 Then
MsgBox "Sorry, there are not enough speed variations to mix that style. Please try again."
MousePointer = 0
TimeFrame.Visible = False
Speed = "Any"
TimeInput.Text = ""
Exit Sub

```

```

Else
  Now.Enabled = True
  Now.BackColor = &HFF&
  PlayButton.Enabled = True
  PlayButton.BackColor = &HFF8080

  SavePlay.Enabled = True
  Command1.Enabled = True
  Now.BackColor = &HFF&
  TimeFrame.Visible = False
  RndMix.Enabled = True
  rndcount = 0
  loopcount = 0
  Randomize
  Do While TimeCount < TotalTime
  DoEvents
    'select random song selections from the song array and add them to the play list

```

LoopReset:

```

k = Rnd()
Y = Int(j * k)
AlreadyChosen = False
If timearray(Y, 0) <> "" Then

  If IsNull(timearray(Y, 1)) Then GoTo LoopReset
  If Speed = "MIXED" Then
    If MixCount > 4 Then MixCount = 0
    If loopcount > 500 Then GoTo DEFAULT
    If (timearray(Y, 7) = FastSpeed And MixCount < 3) Or (timearray(Y, 7) = SlowSpeed And MixCount >= 3) Then

      If rndcount > 0 Then
        For j = 0 To rndcount
          If RndSongsCount(j) = timearray(Y, 1) Then
            AlreadyChosen = True
          End If
        Next j
      End If
      If AlreadyChosen = False Then
        Playlist(0).AddItem timearray(Y, 0) & Chr(9) & timearray(Y, 1) & Chr(9) & timearray(Y, 2)
        Playlist(1).AddItem timearray(Y, 0) & Chr(9) & timearray(Y, 1) & Chr(9) & timearray(Y, 2) & Chr(9) &
timearray(Y, 3) & Chr(9) & timearray(Y, 4) & Chr(9) & timearray(Y, 5) & Chr(9) & timearray(Y, 6) & Chr(9) & timearray(Y, 7) &
Chr(9) & timearray(Y, 8)
        RndSongsCount(rndcount) = timearray(Y, 1)
        loopcount = 0
        PlaySongs = PlaySongs + 1
        rndcount = rndcount + 1
        MixCount = MixCount - 1
      Else
        loopcount = loopcount + 1
        GoTo LoopReset

```

```

    End If
Else
    loopcount = loopcount + 1
    GoTo LoopReset
End If

Else
DEFAULT:
    If rndcount > 0 Then
        For j = 0 To rndcount
            If RndSongsCount(j) = timearray(Y, 1) Then
                AlreadyChosen = True
            End If
        Next j
    End If
    If AlreadyChosen = False Then
        Playlist(0).AddItem timearray(Y, 0) & Chr(9) & timearray(Y, 1) & Chr(9) & timearray(Y, 2)
        Playlist(1).AddItem timearray(Y, 0) & Chr(9) & timearray(Y, 1) & Chr(9) & timearray(Y, 2) & Chr(9) & timearray(Y,
3) & Chr(9) & timearray(Y, 4) & Chr(9) & timearray(Y, 5) & Chr(9) & timearray(Y, 6) & Chr(9) & timearray(Y, 7) & Chr(9) &
timearray(Y, 8)
        RndSongsCount(rndcount) = timearray(Y, 1)
        PlaySongs = PlaySongs + 1
        rndcount = rndcount - 1
    End If
End If

If Playlist(0).Rows > 1 And AlreadyChosen = False Then
    loopcount = 0
    NumSongs.Text = PlaySongs
    Playlist(0).row = Playlist(0).Rows - 1
    Playlist(1).row = Playlist(1).Rows - 1
    For z = 0 To 2
        Playlist(0).Col = z
        Playlist(0).CellBackColor = timearray(Y, 9)
        Playlist(0).BackColorSel = timearray(Y, 9)
        Playlist(0).ForeColorSel = Playlist(0).CellForeColor
    Next z
    For z = 0 To 8
        Playlist(1).Col = z
        Playlist(1).CellBackColor = timearray(Y, 9)
        Playlist(1).BackColorSel = timearray(Y, 9)
        Playlist(1).ForeColorSel = Playlist(1).CellForeColor
    Next z
    TempTime = CLng(timearray(Y, 0))
    SongsTime = SongsTime + TempTime
    timebox.Text = Format(TimeSerial(0, 0, SongsTime), "hh:mm:ss")
    TimeCount = TimeCount + TempTime
    zed = zed + 1
    For j = 0 To 8
        'selsong(j) = Playlist(1).TextMatrix(Playlist(1).Row, j)
        PlayedSongs(1, zed, j) = Playlist(1).TextMatrix(Playlist(1).row, j)
    
```

```

    Next j
    PlayedSongs(1, zed, 9) = Playlist(1).CellBackColor
Else
    loopcount = loopcount + 1
    If loopcount > 100 Then
        MsgBox ("Sorry, there were not enough different music titles to fill your time request. Please try another category as
well.")
        Exit Do
    End If
End If

End If
Loop
End If

Speed = "Any"
TimeInput.Text = ""
AddList(0).Enabled = True
ExpandList.Enabled = True
delete.Enabled = True
MousePointer = 0

End If

Call CheckOnDeck

Exit Sub

errorhandler:
Speed = "Any"
TimeInput.Text = ""
AddList(0).Enabled = True
ExpandList.Enabled = True
delete.Enabled = True
MousePointer = 0

Exit Sub
End Sub

Private Sub undo_Click()
On Error GoTo errorhandler

Select Case UndoEvent
Case 0
    Call RestorePlayList

Case 1
    Call RestoreSearchList

End Select

```

```
undo.Enabled = False
Exit Sub
```

```
errorhandler:
MsgBox ("Sorry....Nothing to undo.")
undo.Enabled = False
End Sub
```

```
"titlefrm.frm"
```

```
Sub Main()
'allocate initial subcategories
FinalCats(1) = "Dance"
FinalCats(2) = "ENERGY"
FinalCats(3) = "Favorite Hits"
FinalCats(4) = "Traditional"
FinalCats(5) = "Special Mixes"
FinalCats(6) = "Club"
StaticCats(7) = "Big Band"
StaticCats(8) = "Spanish"
StaticCats(9) = "Halloween"
StaticCats(10) = "School Dances"
StaticCats(11) = "Italian"
subcatcount = 6
subcattotal = 6
CatColor = &H8000000E
CancelSearch = False
channel = 1
cued(1) = False
cued(2) = False
ExitButtonPushed = False
Speed = "Any"
```

```
End Sub
```

```
Private Sub Animation2_Click()
'enters the system if clicked
titlefrm.Hide
Unload titlefrm
Unload Loader
Animation1.Close
Animation2.Close
Screen1.Show
End Sub
```

```
Private Sub EnterSystem_Click(Index As Integer)
'button click to enter the system
If Index = 0 Then
VoiceActivation = True
ElseIf Index = 1 Then
VoiceActivation = False
End If
```

```

titlefrm.Hide
Unload titlefrm
Unload Loader
Animation1.Close
Animation2.Close
Load Screen1
Load Screen2
Screen1.Show
End Sub

Private Sub ExitSystem_Click()
Dim response As String
'exit option
response = MsgBox("Are you sure you want to exit?", 4, "Exit System")
If response = vbNo Then
Exit Sub
Else

Animation1.Close
Animation2.Close
EndItAll
End
End If
End

End Sub

Private Sub Form_Activate()
Dim WaitTime, ftime As Integer
titlefrm.Refresh
Call waveOutSetVolume(0, &HFFFFFFF)
MMControl1.Command = "stop"
MMControl1.Command = "reset"
MMControl1.Command = "play"
WaitTime = Timer()
ftime = Timer() - WaitTime

Do While ftime <= 2
DoEvents
ftime = Timer() - WaitTime
Loop
Animation2.Visible = True
Animation1.Visible = False

'play the theme music
Do While ftime <= 5
'wait 9 seconds and then display title
ftime = Timer() - WaitTime
DoEvents

If ftime >= 3 Then
Title1(0).Visible = True

```

```

        Title1(1).Visible = True
    End If
Loop
'play the welcome sound file
EnterSystem(0).Visible = True
EnterSystem(1).Visible = True
ExitSystem.Visible = True

End Sub

Private Sub Form_Load()
    MMControl1.Command = "open"
    titlefrm.WindowState = 2
End Sub

Private Sub Form_Resize()
    Dim ScreenHeight As Integer
    Dim ScreenWidth As Integer

    ScreenHeight = (titlefrm.Height / 2)
    ScreenWidth = (titlefrm.Width / 2)
    Title1(0).Width = titlefrm.Width - 105
    Title1(1).Width = titlefrm.Width - 105
    Animation1.Top = ScreenHeight - 1087
    Animation1.Left = ScreenWidth - 1087
    Animation2.Top = ScreenHeight - 1087
    Animation2.Left = ScreenWidth - 1087
    EnterSystem(1).Top = titlefrm.Height - 2880
    EnterSystem(0).Top = EnterSystem(1).Top + 600
    ExitSystem.Top = EnterSystem(1).Top + 1200
    EnterSystem(1).Left = ScreenWidth - 1207
    EnterSystem(0).Left = EnterSystem(1).Left
    ExitSystem.Left = EnterSystem(1).Left

End Sub

Private Sub Form_Unload(Cancel As Integer)
    Animation1.Close
    Animation2.Close
    MMControl1.Command = "stop"
    MMControl1.Command = "close"

End Sub

"Module 1"
Option Explicit
Global Const NONE = 0

'Clipboard formats
Global Const CF_LINK = &HBF00
Global Const CF_TEXT = 1
Global Const CF_BITMAP = 2

```

Global Const CF\_METAFILE = 3  
Global Const CF\_DIB = 8

Global Const MODAL = 1

' ErrNum (LinkError)

Global Const WRONG\_FORMAT = 1  
Global Const DDE\_SOURCE\_CLOSED = 6  
Global Const TOO\_MANY\_LINKS = 7  
Global Const DATA\_TRANSFER\_FAILED = 8

' MousePointer

Global Const DEFAULT = 0  
Global Const HOURGLASS = 11

' LinkMode (forms and controls)

Global Const LINK\_NONE = 0  
Global Const LINK\_SOURCE = 1  
Global Const LINK\_AUTOMATIC = 1  
Global Const LINK\_MANUAL = 2

' Run time errors

Global Const NO\_APP\_RESPONDED = 282  
Global Const DDE\_REFUSED = 285

' Button parameter masks

Global Const LEFT\_BUTTON = 1  
Global Const RIGHT\_BUTTON = 2

Global Const MB\_YESNO = 4  
Global Const MB\_ICONQUESTION = 32  
Global Const IDYES = 6

Global Const REP\_LIGHT = "1 - Light"  
Global Const REP\_NORMAL = "2 - Normal"  
Global Const REP\_INTENSE = "3 - Intense"

"Module2"

Global Const SEL\_DEFAULT = "0 - Default"  
Global Const SEL\_MINIMAL = "1 - Minimal"  
Global Const SEL\_AUTOMATIC = "2 - Automatic"  
Global Const SEL\_ALLWORDS = "3 - All Words"

"Musicdat"

' constants

Public Const WAVECAPS\_LRVOLUME = &H8 ' separate left-right volume control  
Public Const WAVECAPS\_PITCH = &H1 ' supports pitch control  
Public Const WAVECAPS\_PLAYBACKRATE = &H2 ' supports playback rate control  
Public Const WAVECAPS\_VOLUME = &H4 ' supports volume control  
Public Const WAVE\_FORMAT\_1S16 = &H8 ' 11.025 kHz, Stereo, 16-bit  
Public Const WAVE\_GOING = &H3

```

Public Const GMEM_MOVEABLE = &H2
Public Const GMEM_ZEROINIT = &H40
Public Const GENERIC_READ = &H80000000
Public Const GENERIC_WRITE = &H40000000
Public Const OPEN_EXISTING = 3
Public Const FILE_ATTRIBUTE_NORMAL = &H80
Public Const CREATE_NEW = 1
Public Const CREAT_ALWAYS = 2

```

'global variables

```

Public Cat1 As String
Public MemCat As String
Public SubCol As String
Public maxed As Boolean
Public SelCat1 As String
Public Cat2 As String
Public ScreenIndex As Integer
Public letter As String
Public Speed As String
Public cat1count As Integer
Public CurScreen As String
Public SongsTime As Long, time As Long
Public selSong(8) As String
Public Datalocked As Boolean
Public touchscreen As Boolean
Public kliktrak As Integer
Public songlist As Variant, songlist2 As Variant
Public songlength As Double
Public sortstat As Boolean
Public SelList As Integer
Public CatColor As Variant
Public MinDate(36) As Integer
Public MaxDate(36) As Integer
Public SearchCats(2, 10) As Variant
Public searchflag As Integer
Public colnum As Integer
Public SearchSongs As Integer, PlaySongs As Integer
Public MnCatColor(3000) As Variant
Public subcatcount As Integer, subcattotal As Integer
Public STime(3000) As String, PTime(3000), RndSongsCount(3000) As String
Public SubCats(100) As String, FinalCats(100) As String
Public StaticCats(12) As String
Public PlayTime As Integer
Public SongPlaying As Boolean
Public CancelSearch As Boolean
Public channel As Integer
Public HeadExpand As Integer
Public OtherChannel As Integer
Public cmd As String * 255
Public StopList As Boolean, PauseList As Boolean
Public cued(3) As Boolean
Public MainCount As Integer, SubCount As Integer
Public UndoEvent As Integer
Public UndoText(10) As String

```

```

Public UndoRow As Integer
Public ButMem As String
Public PlayedSongs(6, 3000, 10) As Variant
Public PlaylistsPlayed As Integer
Public PlayedTemp(6) As Integer
Public SlowSpeed As String
Public MidSpeed As String
Public FastSpeed As String
Public zed As Integer
Public FavHitsFinder As Integer
Public InitialFolder As String
Public totalFiles As Integer
Public NewSlidePos As Long
Public OldSlidePos As Long
Public volinc(2) As Long
Public RateInc As Long
Public DevID As Long
Public VolumeID As Long
Public VolumeHandle As Long
Public PitchHandle As Long
Public CancelCopy As Boolean
Public allCells1 As String, allCells2 As String, colors As String
Public FileNum As Integer, numRows As Integer
Public CurRow1 As Integer, CurRow2 As Integer, CurCol As Integer
Public FileColors() As Variant
Public AlreadyChosen As Boolean
Public automix As Boolean
Public FadePercent As Single
Public OldVolValue(2) As Long
Public WinPlayConnected As Integer
Public DisplayLibrary As Boolean
Public FirstLibrary As Boolean
Public NextTrackVar As Boolean
Public PrevTrackVar As Boolean
Public AutoExitTime As Long
Public AutoExitStart As Long
Public AutoExitEvent As Boolean
Public ExitButtonPushed
Public CancelLibrary As Boolean
Public VoiceActivation As Boolean
Public SongSelected As Boolean
Public FilePointer As Long
Public OrigVol(9) As Long
Public StoplistingList As Boolean
Public RatingTemp As String
Public RatingBlock As String
Public password As String
Public NewPassword1 As String
Public NewPassword2 As String
Public TimeSoFar As Long
Public NewPauseStartTime As Long

Declare Function waveOutClose Lib "winmm.dll" (ByVal hWaveOut As Long) As Long

```

Declare Function waveOutGetVolume Lib "winmm.dll" (ByVal uDeviceID As Long, lpdwVolume As Long) As Long  
 Declare Function waveOutSetVolume Lib "winmm.dll" (ByVal uDeviceID As Long, ByVal dwVolume As Long) As Long  
 Declare Function waveOutGetID Lib "winmm.dll" (ByVal hWaveOut As Long, lpuDeviceID As Long) As Long  
 Declare Function waveOutPause Lib "winmm.dll" (ByVal hWaveOut As Long) As Long  
 Declare Function waveOutRestart Lib "winmm.dll" (ByVal hWaveOut As Long) As Long  
  
 Declare Function waveOutGetPlaybackRate Lib "winmm.dll" (ByVal hWaveOut As Long, lpdwRate As Long) As Long  
 Declare Function waveOutSetPlaybackRate Lib "winmm.dll" (ByVal hWaveOut As Long, ByVal dwRate As Long) As Long  
  
 Declare Function waveOutGetPitch Lib "winmm.dll" (ByVal hWaveOut As Long, lpdwPitch As Long) As Long  
 Declare Function GlobalAlloc Lib "kernel32" (ByVal wFlags As Long, ByVal dwBytes As Long) As Long  
  
 Declare Function GlobalLock Lib "kernel32" (ByVal hMem As Long) As Long  
 Declare Function GlobalFree Lib "kernel32" (ByVal hMem As Long) As Long  
 Declare Function GlobalUnlock Lib "kernel32" (ByVal hMem As Long) As Long  
  
 Declare Function CreateFile Lib "kernel32" Alias "CreateFileA" (ByVal lpFileName As String, ByVal dwDesiredAccess As Long, ByVal dwShareMode As Long, lpSecurityAttributes As Any, ByVal dwCreationDisposition As Long, ByVal dwFlagsAndAttributes As Long, ByVal hTemplateFile As Long) As Long  
  
 Declare Function ReadFile Lib "kernel32" (ByVal hFile As Long, lpBuffer As Any, ByVal nNumberOfBytesToRead As Long, lpNumberOfBytesRead As Long, lpOverlapped As Any) As Long  
  
 Declare Function WriteFile Lib "kernel32" (ByVal hFile As Long, lpBuffer As Any, ByVal nNumberOfBytesToWrite As Long, lpNumberOfBytesWritten As Long, lpOverlapped As Any) As Long  
  
 Declare Function GetFileSize Lib "kernel32" (ByVal hFile As Long, lpFileSizeHigh As Long) As Long  
  
 Declare Function CloseHandle Lib "kernel32" (ByVal hObject As Long) As Long  
  
 Declare Function ExitWindows Lib "user32" (ByVal dwReserved As Long, ByVal uReturnCode As Long) As Long  
 Declare Function waveOutSetPitch Lib "winmm.dll" (ByVal hWaveOut As Long, ByVal dwPitch As Long) As Long

Public Sub EndItAll()  
   Unload Screen1  
   Unload Screen2

```
'Unload titlefrm  
'Unload Updater  
'Unload DriveScan  
'Unload Main  
Unload Recorder  
End  
End Sub
```

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What is claimed is:

1. A music organizer and entertainment center comprising:

- a storage device for storing encrypted, compressed data and an associated unique encryption key, the data defining a plurality of individual music selections and associated category flags, the encryption key being associated with an authorized user of the data;
- a processor that retrieves selections and the associated category flags from the storage device based upon user selection of predetermined of the categories;
- a decompression device that translates the encrypted, compressed data stored in the storage device into playable digital music data if a decryption key associated with the authorized user and corresponding to the encryption key has been provided to the decompression device; and
- a sound card that converts the playable digital music data into audible music signals.

2. The center as set forth in claim 1 further comprising a data reading device that transfers data to the data storage device, the data reading device receiving data from a service provider that appends predetermined associated category flags to each of the plurality of individual music selections as originally prepared by the service provider.

3. The center as set forth in claim 2 wherein the data reading device comprises an optical disc reader that reads an optical disc of individual music selections prepared by the service provider.

4. The center as set forth in claim 3 wherein the storage device includes a file having all individual music selections available from the service provider, constructed and arranged so that a user can identify each of the individual music selections whereby the individual music selections can be requested from the service provider.

5. The center as set forth in claim 4 wherein one of the category flags comprises an ownership category flag that indicates which music selections from the list of all music selections are currently resident in the storage device.

6. The center as set forth in claim 1 further comprising a graphical user interface display having a plurality of selectable screens, at least one of the selectable screens including a plurality of category buttons constructed and arranged so that when a predetermined of the category buttons is activated, music selections having category flags matching the predetermined category of a respective of the buttons are selected and listed on the display.

7. The center as set forth in claim 6 wherein at least one of the displays includes a play list of music selections chosen from the search list, the center being constructed and arranged to translate compressed data of each of the music

selections on the play list, in a predetermined order, and to convert the playable digital music data into audible music signals.

8. The center as set forth in claim 7 further comprising a memory function constructed and arranged to memorize predetermined lists of music selections for subsequent playback based upon predetermined list identifier commands.

9. The center as set forth in claim 8 wherein at least one of the category flags comprises a rating flag and further comprising means for selectively blocking playback of songs associated with predetermined rating flags, the means for blocking including a password entry function to control the means for blocking.

10. The center as set forth in claim 1 further comprising a display screen having a plurality of graphical user interface displays, at least one of the displays including a plurality of buttons that, when activated, display a list of music selections on a search list having the associated category flags.

11. The center as set forth in claim 10 wherein each of the category buttons is constructed and arranged to display a plurality of sub-category buttons with other associated category flags whereby activation of the sub-category buttons further defines a selection of individual music selections so that the further defined music selections have each of the selected associated category flags.

12. The center as set forth in claim 1 further comprising a graphical user interface having a plurality of display screens, at least one of the screens showing thereon a plurality of buttons associated with individual of the associated category flags, a playback list showing music selections schedule for playback by the center and a search list showing current music selections retrieved based upon predetermined of the category buttons.

13. The center as set forth in claim 12 wherein the graphical user interface comprises a further screen having a plurality of music playback control buttons for controlling sound levels of the audible music signals.

14. The center as set forth in claim 13 wherein the graphical user interface includes a display screen having a listing of all available music selections currently stored in the storage device.

15. The center as set forth in claim 1 wherein the decryption key is stored in the center.

16. The center as set forth in claim 1 wherein the keys comprise a public/private key pair.

17. The center as set forth in claim 1 wherein the center comprises two separately housed units for being docked with each other.

18. The center of claim 1 wherein the center includes a voice-activation mechanism.

\* \* \* \* \*