This invention relates to an electronic means by which people can select the exact seat or seats they want for any type of event or reserve an appointment for any activity. More specifically, a customer or a ticket re-seller or a venue operator can go, for example, to the internet and select the event or activity for which he wants a ticket or tickets or reserve a time and order the exact seat or seats or the time of his choosing directly online. The seat or seats may be displayed on a personal computing device, and additional information about the seat or seats may be displayed in response to the customer or ticket re-seller or venue operator placing a location indicator over a portion of the interactive seating display.

20 Claims, 30 Drawing Sheets
AirTran Airways, Inc.’s Answer to CEATS, Inc.’s First Amended Complaint, dated Jul. 26, 2010.
Alaska Airlines, Inc.’s Answer and Counterclaims to CEATS, Inc.’s First Amended Complaint, dated Aug. 4, 2010.
Alaska Airlines, Inc.’s Second Amended Answer and Counterclaims to CEATS, Inc.’s First Amended Complaint, dated Aug. 6, 2010.
Alesandrini, Kathryn, "Presentation World is a virtual conference center on CD-ROM, (Cinema Corp) (Software Review)", Computer Shopper, v15, a9, p. 204(1).
Alia—The Royal Jordanian, PLC’s Answer to CEATS, Inc.’s First Amended Complaint and Counterclaim, dated Jul. 26, 2010.
All Nippon Airways Co., Ltd.’s First Amended Answer and Counterclaims to CEATS, Inc.’s First Amended Complaint, dated Aug. 4, 2010.
All Nippon Airways Co., Ltd.’s Second Amended Answer and Counterclaims to CEATS, Inc.’s First Amended Complaint, dated Aug. 9, 2010.
BOMI (Box Office Management International) Newsletter, Jan. 1986 (DEPA014088-112).
BOMI (Box Office Management International) Newsletter, Jan. 1988 (DEPA014126-157).
BOMI (Box Office Management International) Newsletter, Jul./Aug. 1995 (DEPA014650-663).
BOMI (Box Office Management International) Newsletter, Mar. 1985 (DEPA014080-087).
BOMI (Box Office Management International) Newsletter, Nov. 1987 (DEPA014113-125).
BOMI (Box Office Management International) Newsletter, Winter 1981 (DEPA014073-078).
BOMI (Box Office Management International): Vienna Waits for You! Europe Talks Tickets, 6th Annual Conference and Exhibition, Vienna, Austria, Apr. 6-8, 1995, Conference Proceedings (DEPA014455-649).


INTIX (The International Ticketing Association) Newsletter, Apr. 1998 (DEFFPA014997-512).

INTIX (The International Ticketing Association) Newsletter, Apr. 2000 (DEFFPA006368-61).


INTIX (The International Ticketing Association) Newsletter, Jan./Feb. 1999 (DEFFPA015001-110).


INTIX (The International Ticketing Association) Newsletter, Jan./Feb. 2002 (DEFFPA015337-260).


INTIX (The International Ticketing Association) Newsletter, Mar. 1999 (DEFFPA015111-134).


INTIX (The International Ticketing Association) Newsletter, May 1997 (DEFFPA014850-863).


Give Travel as a Gift—Promotion, Microsoft New Center, Nov. 16, 1998 (EXP0002649-EXP0002651).

New Sites to Offer Locally Relevant Booking and Planning Services, Microsoft News Center, Nov. 12, 1998 (EXP0002652-EXP0002653).


Expedia’s “Deals” Section Benefits Both Travel Suppliers and Consumers, Microsoft News Center, Jan. 11, 1999 (EXP0002656).


MSN Expedia Inks Largest Hotel Advertising and Co-Marketing Buys on the Internet, Microsoft News Center, Mar. 29, 1999 (EXP0002662-EXP0002663).

MSN Expedia Expands its Travel Marketplace, Mar. 29, 1999 (EXP0002664).

American Express and Microsoft Form Alliance to Provide Internet/Intranet Travel Services, Microsoft News Center, Jul. 29, 1996 (EXP0002665-EXP0002666).

Microsoft to Offer Truly Interactive Web-Zine Featuring Travel Adventures, Microsoft News Center, Jul. 17, 1996 (EXP0002667).

Microsoft Taps Shandwick to Drive Interactive Media Division PR, Microsoft News Center, Sep. 19, 1996 (EXP0002668).

Microsoft Expedia Travel Services Debuts on the Web, Microsoft News Center, Oct. 22, 1996 (EXP0002669-EXP0002670).

MSN Expedia Wins PC Magazine’s Editor’s Choice Award for Best Leisure Travel Site, Microsoft News Center, Mar. 23, 1999 (EXP0002671).

Microsoft Expedia Brings Internet Travel Services to Canada, Microsoft News Center Apr. 2, 1997 (EXP0002672-EXP0002673).


Buy Your Next American Airlines Ticket on MSN Expedia, Get the Next at Half Off, Microsoft News Center, Mar. 22, 1999 (EXP0002678).

Microsoft Expedia Travel Service to Be Premier Provider of Active Channel Content for Microsoft Internet Explorer 4.0, Microsoft News Center, Oct. 1, 1997 (EXP0002679).

Microsoft Expedia.com Offers Exclusive Low Prices on Vacation Packages Online, Microsoft News Center, Nov. 6, 1997 (EXP0002681).

Microsoft Expedia.com Adds Online Mapping and Vacation Packages, Microsoft News Center, Nov. 6, 1997 (EXP0002682-EXP0002683).

MSN Expedia and MaxMiles Join Forces to Save Travelers Time, Microsoft News Center, Mar. 22, 1999 (EXP0002684).

Expedia.com Offers Consumers One-Stop Online Travel Shopping, Microsoft News Center, Jan. 27, 1998 (EXP0002685).


Expedia, Inc., Company History (EXP0002687-EXP0002690).

Microsoft Expedia.com and Lufthansa German Airlines Announce the Ultimate Destination Sweepstakes and Miles & More Bonus Offer, Microsoft News Center, Mar. 9, 1998 (EXP0002691).


Expedia Travel Network and Expedia Associates Program Show Success in First Two Months, Microsoft News Center, Apr. 2, 1998 (EXP0002693).

KLM Is First International Licensee and Fifth Licensee Overall of the Platform to Streamline Travel-Booking Capabilities for Consumers, Microsoft News Center, Apr. 2, 1998 (EXP0002694).


MSN Expedia Hits Record $16 Million in Weekly Sales, Microsoft News Center, Apr. 14, 1999 (EXP0002697).


MSN Expedia Broadens Travel Marketplace With Launch of Business Travel Section, Microsoft News Center, May 25, 1999 (EXP0002700-EXP0002701).

Travelers Who Use MSN Expedia to Book a Night at Any Participating Starwood Hotel or Resort Get Half Off Up to Five Nights on a Future Stay, Microsoft News Center, Nov. 24, 1999 (EXP0002702-EXP0002703).

MSN Expedia Brings Online Travel to the Airwaves Via Innovative Radio Program, Microsoft News Center, Jun. 23, 1999 (EXP0002704-EXP0002705).


Expedia.com Breaks New Ground in Online Travel, Microsoft News Center, Jul. 26, 1999 (EXP0002708-EXP0002709).

Expedia.com Leads the Way in Online Travel Boom, Microsoft News Center, Jul. 26, 1999 (EXP0002710).

Expedia.com Solidifies Leadership Position in Online Travel Industry, Microsoft News Center, Jul. 21, 1999 (EXP0002711).


Pst, present, and future office actions, amendments, arguments, and other relevant documents or materials in the file history of U.S. Appl. No. 09/553,213, filed Apr. 20, 2000, entitled Individual Seat Selection Ticketing and Reservation System, now abandoned.

Pst, present, and future office actions, amendments, arguments, and other relevant documents or materials in the file history of U.S. Appl. No. 9/704,357, filed Apr. 21, 2000, entitled Individual Seat Selection Ticketing and Reservation System, now abandoned.


Email from Brian Emanuel produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED, sent May 2, 1997.


Microsoft Expedia Flight Wizard screenshots produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED.


Document titled “Project Outline” produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED.


Document titled “Seat Pinpointer” produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED.


Document titled “Non Managed Business Travel Product” produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED.

Document titled “Introduction to MS Integrate” produced during trial, CEATS, Inc. v. Continental Airlines, Inc., Civil Action No. 6:10-cv-120 LED.


1. A VENUE OPERATOR IMPLEMENTS THE INSTANT INVENTION FOR HIS USE AS HIS OWN TICKETING AND RESERVATION SYSTEM.

2. THAT SPECIFIC VENUE IS RECORDED, CODED AND PLACED ON A SERVER CONNECTED CONVENTIONALLY TO THE INTERNET OR ANY SUCH WIDE AREA NETWORK.

3. A PROSPECTIVE CUSTOMER FOR TICKETS TO ANY EVENT LOGS ONTO THE INTERNET, OR OTHER SUCH WIDE ARE NETWORK, IN HIS CONVENTIONAL MANNER, WHETHER FROM HOME OR OFFICE OR ANY REMOTE LOCATION.

4. SAID PROSPECTIVE CUSTOMER ATTACHES TO THE SERVER EVENT LOGS ONTO THE INTERNET, OR OTHER THROUGH ANY CONVENTIONAL GRAPHICAL BROWSING MEANS SUCH WIDE AREA NETWORK, IN HIS CONVENTIONAL AND VIEWS THE AVAILABLE VENUES, PERFORMANCES, DATES, MANNER, WHETHER FROM HOME OR OFFICE OR ANY AND/OR OTHER SUCH OFFERINGS.

5. UPON FIRST ACCESS AN INQUIRY IS MADE TO THE APPROPRIATE DATABASE ASKING FOR A RETURN TO THE PROSPECTIVE CUSTOMER OF ALL GENERALIZED INFORMATION AVAILABLE FROM WHICH HE WILL MAKE A SELECTION OF THE TYPE OF VENUE HE IS SEEKING.

6. SAID PROSPECTIVE CUSTOMER SELECTS A SPECIFIC AREA OF INTEREST FROM THE AVAILABLE VENUES, SUCH MAY BE THEATER TICKETS FOR A PARTICULAR SHOW DATE, AIRLINE SEATS FOR A GIVEN FLIGHT, ETC., AND INDICATES HIS SELECTION THROUGH A CONVENTIONAL HYPERLINK OR OTHER COMPATIBLE MEANS.

7. UPON CONTACT THE SERVER MAKES ANOTHER APPROPRIATE DATABASE QUERY ASKING FOR A RETURN TO THE PROSPECTIVE CUSTOMER OF ALL AVAILABLE SEATING FOR HIS SELECTED VENUE FROM WHICH HE WILL MAKE HIS SELECTION OR SELECTIONS.

8. UPON RETURN THE PROSPECTIVE CUSTOMER IS PRESENTED WITH A REPRESENTATION OF ALL AVAILABLE SEATING FOR HIS SELECTED VENUE FROM THIS REPRESENTATION, WHICH MAY BE GRAPHICAL OR DISPLAYED IN ANY OTHER APPROPRIATE WAY HE MAKES A SELECTION OF THE SPECIFIC SEAT OR SEATS HE WISHES TO RESERVE AND SUBMITS SUCH TO THE SERVER.

9. THE SERVER REQUESTS PAYMENT INFORMATION FROM THE NOW CUSTOMER THROUGH A FORM INPUT MECHANISM. ONCE COMPLETED AND SUBMITTED, THE CUSTOMER'S PAYMENT INFORMATION IS VERIFIED THROUGH CONVENTIONAL MEANS WITH ANY OF THE EXISTING PROCESSING MEANS.

10. IF CUSTOMER'S PAYMENT INFORMATION VERIFICATION IS SUCCESSFUL THEN: (A) THE CUSTOMER'S INFORMATION, AS SUPPLIED IN STEP 10, IS MADE PERMANENT AND, (B) THOSE SPECIFIC SEATS AS SELECTED BY THE CUSTOMER ARE REMOVED FROM AVAILABLE INVENTORY AND, (C) MARKED AS UNAVAILABLE ON THE GRAPHICAL REPRESENTATION OF THE VENUE SEATING AS PRESENTED TO THE NEXT PROSPECTIVE CUSTOMER; (D) ENTERED INTO THE ACCOUNTING AND ADMINISTRATION INFORMATION DATABASE FOR LATER RETRIEVAL BY THE VENUE OPERATOR.

11(A). IF CUSTOMER'S PAYMENT INFORMATION VERIFICATION IS NOT SUCCESSFUL THEN: (A) CUSTOMER IS GIVEN THE OPPORTUNITY TO CORRECT HIS SUBMITTAL AND TRY AGAIN; (B) CUSTOMER CAN RETURN TO THE BEGINNING AND REPEAT THE ENTIRE PROCESS.

12. A CONFIRMATION OF THE TRANSACTION, CONTAINING THE TRANSACTION IDENTIFICATION AND OTHER PERTINENT INFORMATION, IS RETURNED TO THE CUSTOMER.
To reserve your seat(s), please choose the performer you wish to see or the concert date/time you wish to attend:

**Country, The Musical**

- **Country!**
  - February 20, 1999 (4:00p)

- **Brenda Lee**
  - February 25, 1999 (6:30p)

Fig. 4A
Click on the seat you wish to reserve.

An "X" denotes a seat that has already been taken.

Your mouse is over seat #: S21c

Selected Seats:
S21a, S21b

Reserved Seat Clear Choice

FIG. 4B
FIG. 4C

Concert Reservation System

CUSTOMER INFORMATION

Name as appear on CC: Richard Halavais
Phone: 714-693-1171
Email: rhal@msintergate.com
CC Number: 4111111111
Expiration (MM/YY): Month 09 / Year 99... example: 12/99

Reserve Seats
Clear Choices
The credit card has been approved and the reservation has been processed.

The following are the Authorization Code and Receipt Number:

Authorization Code: AB3107
Receipt Number: 317

Customer Name: Richard Halavais
Total Amount: $40.00
Credit Card Number: 41111111111111
Month of Expiration: 09
Year of Expiration: 99

Return to MSI Reservation Front Desk
Click on the seat you wish to reserve.

An "X" denotes a seat that has already been taken.

Your mouse is over seat #: 

Selected Seats:

Reserve Seat  Clear Choice

FIG. 4E
Begin Program

<MARKUP LANGUAGE>

<REM --- Imports the file "datasource.inc" which creates variable "datasource" which is
used to tell markup language datasource to connect to. --->

<INCLUDE NAME="database\datasource.inc">

<REM --- In case a database or other type of error occurs, this display the error message. -->

<ERROR>

<FONT FACE='Verdana, Arial' SIZE='+1'><B>An Error Has Occurred</B></FONT><P> <FONT FACE='Verdana, Arial' SIZE='-1'><B>Error Message= :i_errortext</B></FONT><P>
<FONT FACE='Verdana, Arial' SIZE='-1'><B>database Error= :i_databaseerrorstmt</B></FONT><P>
</ERROR>

<REM --- Begin normal markup language here --->

<MARKUP LANGUAGE>

<HEAD>

<TITLE>Ticketing &amp; Reservation System</TITLE>

</HEAD>

<BODY BACKGROUND="images/background.jpg" TEXT="#000000" LINK="#006666" VLINK="#006666">

<CENTER>

<IMG SRC="images/masthead_concerts.gif" HEIGHT=60 WIDTH=280></CENTER>
To begin reserving your seat(s), please select the concert date/time you wish to attend next to the performer you want to see:

```html
<font face='Verdana,Arial' size=-1><b>To begin reserving your seat(s), please select the concert date/time you wish to attend next to the performer you want to see:</b></font>

<table border=0 cellspacing=5 cellpadding=5>

<rem>--- Begin database query to retrieve all performances that is currently available. Will loop until all available performing artists and their performances are listed. Part of the return from the query are the links that will take you to the next step of the reservation. --->

<database dbname=':datasource' database='SELECT id, name, picture, sequence FROM category WHERE active=1 AND parent=-1 ORDER BY sequence' alias='concert'>
<database fetch alias='concert'>
<while not alias='i_databaseempty'>
<tr>
	<to colspan=2>
	<font face='Verdana,Arial' size=+1><b>:concert_name</b></font>
</td></tr><tr><td valign=top>
</td><td>
</td><td>
</td>
</tr>

<database dbname=':datasource' database='SELECT id, name, date, time FROM category WHERE active=1 AND parent=rconcert_id ORDER BY date, time' output='&lt;font face='Verdana,Arial' size=-1&gt;&lt;b&gt;US 8,244,561 B2 FIG. 5 (CONT.)'>
</database>
</while>
</database>
</table>
```
FIG. 5
(CONT.)

processing then passes to:

<markup language>

<REM--- Imports the file "datasource.inc" which creates the database datasource to connect to. --->

<INCLUDE NAME="database\datasource.inc">

<REM In case a database or other type of error occurs, this will display the error message. >

<ERROR>

<FONT FACE="Verdana,Arial" SIZE="*1">An Error Has Occurred</FONT><P>

<REMFACE="Verdana,Arial" SIZE="*1">Error Message =

<i_errortext></i_errortext></P>

<REMFACE="Verdana,Arial" SIZE="*1">database Error =

<i_databaseerrortext></i_databaseerrortext></P>

<REMFACE="Verdana,Arial" SIZE="*1">database Error =

<i_databaseerrorstmt></i_databaseerrorstmt></P>

<ERROR>

<REM--- Begin normal markup language here --->

<markup language>

<HEAD>

<TITLE>Ticketing & Reservation System - Select Seat(s)</TITLE>
<REM --- All seats clicked will pass its information to a input box. "newseats". When done, the information will be passed to "process.ihtml" and be processed by "reserve2.ihtml". --- >

<REM --- This code allows the ability to select multiple seats before proceeding to the next step of reservation process. Other features include listing the selected seats in the "number" text box to show the seats that has been clicked. This script also alters the button text to be grammatically correct. --- >

<SCRIPT LANGUAGE="JavaScript">
<!--
function selectseat(idnum, seatnum)
{
    reserved = document.seats.number.value;
    if (reserved == "")
    {
        document.seats.newseats.value = "<Markup language DBNAME=""+datasource database='INSERT INTO basket (custid, pid, qty) VALUES ("+custid,"+idnum+",1)'>"+<database DBNAME=""+datasource database='SELECT cost FROM products WHERE id="+idnum+"'><database FETCH><iEQ NAME='ticketprice' VALUE="1"></database><iEQ NAME='total' VALUE=<iEVAL EXPR='"+ticketprice + "+"+total' PREC='2'»<Markup language DBNAME=""+datasource database='INSERT INTO orderdetail (pid, aid, qty, sell) VALUES ("+idnum+","+oid.1,"+ticketprice")'>";
    document.seats.number.value = seatnum;
    document.seats.button1.value = "Reserve Seat";
    document.seats.button2.value = "Clear Choice";
    }
    else
    {
    document.seats.newseats.value += "<Markup language DBNAME=""+datasource database='INSERT INTO basket (custid, pid, qty) VALUES ("+custid,"+idnum+",1)'>"+<database DBNAME=""+datasource database='SELECT cost FROM products WHERE id="+idnum+"'><database FETCH><iEQ NAME='ticketprice' VALUE="1"></database><iEQ NAME='total' VALUE=<iEVAL EXPR='"+ticketprice + "+"+total' PREC='2'»<Markup language DBNAME=""+datasource database='INSERT INTO orderdetail (pid, aid, qty, sell) VALUES ("+idnum+","+oid.1,1,"+ticketprice")'>";
    }
    }

    // other code..."-->
</SCRIPT>
function clear() {
    document.seats.newseats.value = "";
}
//-->
<SCRIPT>
</BODY>
<REM --- Begin database query to retrieve the last id number from table "ordertable" for the purpose of creating a new instance of the stage image whenever a new order has occurred. This will prevent the browser from displaying an old floor image from its cache as a different image name is called every time the file is run. --- >
<database DBNAME=":datasource"
    database="SELECT max(id)
    FROM ordertable"
<databaseFETCH>
<IEQ NAME="imagenum" VALUE=1>
<databaseFETCH>
</database>
Concert Reservation System

REM - Loads the core image that will be dynamically altered for use as the image map. ->
<IMAGEFROM FILE NAME="stage" FILENAME="images/stage.jpg" TYPE="jpeg">
<MAP NAME="stage" BORDER=0>
REM --- Begin database query to retrieve all seat information for the image map "stage". Will loop until all available seat information for this particular performance is listed. --->
<database DBNAME=":datasource" database="SELECT id, active, x, y, shape, coords, name, mouseout, mouseover1, mouseover2, mouseover3 FROM products WHERE catid=id"><databaseFETCH>
<WHILE NOTALIAS=i_databaseempty>
<IF NAME="active" VALUE=2>
<IF NAME="active" VALUE=1>
FIG. 5 (CONT.)
Click on the seat you wish to reserve.

**FIG. 5**

An "X" encircles a seat that has already been taken.
which then passes to a template:

```
<MARKUP LANGUAGE>
<REM --- Imports the file "datasource.inc" which creates the variable "datasource" which is
used to tell Markup language which ODBC datasource to connect to.
<INCLUDE NAME="database\datasource.inc">
<REM --- In case a database or other type of error occurs, this will display the error
message. - >
```

**FIG. 5**

(CONT.)
<ERROR>

<REM--- Copy a preformatted file, "empty.ihtml" into a new file, "reserve2.ihtml".
<REM--- Once the information is appended into "reserve2.ihtml", it will be automatically pushed to the browser.
<REM--- Imports the file "datasource.inc" which creates the variable "datasource" which is used to tell Markup language which ODBC datasource to connect to.

FIG. 5
(CONT.)
<INCLUDE NAME="database.datasource.inc">

<REM --- In case a database or other type of error occurs, this will display the error message. -->
<ERROR>

<FONT FACE="Verdana,Arial" SIZE="+1"><B>An Error Has Occurred</B></FONT><P>
<FONT FACE="Verdana,Arial" SIZE="+1"><B>Error Message = i_errortext</B></FONT><P>
<FONT FACE="Verdana,Arial" SIZE="+1"><B>database Error = idatabaseerrortext</B></FONT><P>
<FONT FACE="Verdana,Arial" SIZE="+1"><B>database Error = idatabaseerrorstmt</B></FONT></P>

<ERROR>

<REM --- Copy a preformatted file, "empty.ihtml" into a new file, "reserve2.ihtml". -->
<COPYFILE SRC="empty.ihtml" DST="reserve2.ihtml">
<REM Appends the information passed from "reserve1.ihtml" to "reserve2.ihtml" for process. Other html information is also passed. -->
<FILE NAME="reserve2.ihtml" DATA=":newseats" OP="append">
<FILE NAME="reserve2.ihtml" DATA="<INPUT TYPE='hidden' NAME='total' VALUE=':total'" OP="append">
<FILE NAME="reserve2.ihtml" DATA="</FORM>" OP="append">
<FILE NAME="reserve2.ihtml" DATA="</CENTER>" OP="append">
<FILE NAME="reserve2.ihtml" DATA="</P>" OP="append">
<FILE NAME="reserve2.ihtml" DATA="</BODY>" OP="append">
<FILE NAME="reserve2.ihtml" DATA="</markup language>" OP="append">
<REM --- Once the information is appended into "reserve2.ihtml", it will be automatically push the page "reserve2.ihtml" to the browser.
<REDIR URL="reserve2.ihtml">
then (takes all information from index & reserve one and combines it to with the information in empty) then passes to:

FIG. 5 (CONT.)
<REM --- Imports the file "datasource.inc" which creates the variable "datasource" which is used to tell Markup language which ODBC datasource to connect to. --- >

<INCLUDE NAME="databasedatasource.inc">

<REM -- In case a database or other type of error occurs, this will display the error message. -->

<ERROR>

<FONT FACE="Verdana,Arial" SIZE="+1">An Error Has Occurred</FONT><P>
<br>Error Message = i_errortext</br><P>
<br>database Error = i_databaseerrorstmt</br><P>

<ERROR>

<REM --- Begin normal markup language here --- >

<markup language>

<HEAD>

<TITLE>Ticketing & Reservation System - Customer Information</TITLE>

<HEAD>

<BODY BACKGROUND="images/background.jpg" TEXT="#000000" LINK="#006666"
VLINK="#006666">

<REM--------Get Customer Info------->

<CENTER>

<TABLE BGCOLOR="#000000" BORDER=0 CELLPADDING=5 CELLCSPACING=0
WIDTH=500>

<TR><TD><CENTER>
<br>Ticketing & Reservation System</br>

<FIG. 5>
(CONT.)
<FORM ACTION=reserve3.ihtml METHOD=POST>
<TABLE BGCOLOR='#000000' BORDER=0 CELLPADDING=0 CELLSPACING=0>
<TD><TABLE BGCOLOR='#FFFF00' BORDER=0 CELLPADDING=0 CELLSPACING=1>
<TR><TD COLSPAN=2><CENTER><FONT FACE='Verdana,Arial' SIZE=-1><B>CUSTOMER INFORMATION</B></FONT></TD></TR>
<TR><TD><FONT FACE='Verdana,Arial' SIZE=-1><B>Name as appear on CC</B></FONT></TD><TD><FONT FACE='Verdana,Arial' SIZE=-1><B><INPUT TYPE="text" NAME="name" MAXLENGTH=50 SIZE=40></B></FONT></TD></TR>
<TR><TD><FONT FACE='Verdana,Arial' SIZE=-1><B>Phone</B></FONT></TD><TD><FONT FACE='Verdana,Arial' SIZE=-1><B><INPUT TYPE="text" NAME="phone" MAXLENGTH=50 SIZE=12></B></FONT></TD></TR>
<TR><TD><FONT FACE='Verdana,Arial' SIZE=-1><B>Email</B></FONT></TD><TD><FONT FACE='Verdana,Arial' SIZE=-1><B><INPUT TYPE="text" NAME="email" MAXLENGTH=50 SIZE=40></B></FONT></TD></TR>
<TR><TD><FONT FACE='Verdana,Arial' SIZE=-1><B>CC Number</B></FONT></TD><TD><FONT FACE='Verdana,Arial' SIZE=-1><B><INPUT TYPE="text" NAME="ccnum" MAXLENGTH=50 SIZE=40></B></FONT></TD></TR>
</TABLE></TD></TR>
</TABLE>
</FORM>

FIG. 5 (CONT.)
<TD><FONT FACE='Verdana, Arial' SIZE=-1><B>Expiration</B></FONT></TD>
(M/M/YY)</TD><BR>
<TD><FONT FACE='Verdana, Arial' SIZE=-1><B>Month</B></FONT><INPUT TYPE='text' NAME='ccmexp' MAXLENGTH=50 SIZE=2> <B>Year</B> <INPUT TYPE='text' NAME='ccyexp' MAXLENGTH=50 SIZE=2> ... example: 12/99</TD></TR>
</TABLE>

<iEQ NAME='total' VALUE=0>
<iEQ NAME='date' VALUE='<DATE>'>
<REM --- Begin database command to insert a new customer profile into the database. This step is primarily for the purpose of obtaining a new customer id to associate this transaction. The customer's ip and captured and inserted into a new record in the "customers" table. The marker, "new" is flagged "true" for the retrieval of the new id. Once the new customer id is captured, the marker "new" is turned off. ...>
<Markup language='DBNAME':datasource
database='INSERT INTO customers (ip, new)
VALUES (:i_ip, 1)'>
<database DBNAME='datasource
database='SELECT id
FIG. 5
(Cont.)
FROM customers
WHERE new=1>
<database>FETCH>
<iEQ NAME="custid" VALUE=:1>
</database>

<Markup language DBNAME=:datasource
database=UPDATE customers
SET new=0
WHERE id=:custid>
<REM --- Begin database command to insert a new reservation into the database. This step is primarily for the purpose of creating a new reservation record, flagged with the newly obtained customer id, so that the transaction information may be processed in "resere3.html". --->
<Markup language DBNAME=:datasource
database=INSERT INTO orders (orderdate, approvalcode, receiptnum, totalcharge, cust(id)
VALUES (:date', '0000', '0000', :total, :custid)"
FAILURE='The order could not be processed at this time due to technical difficulties.''>
<REM --- Begin database command to obtain the reservation id that was just created. This information, coupled with the customer id, will be used to identify this particular transaction in the database and be updated in "resere3.html". --->
<database DBNAME=:datasource
database=SELECT max(id)
FROM orders>
<database>FETCH>
<iEQ NAME="oid" VALUE=:1>
</database>

<INPUT TYPE="hidden" NAME="reserve" VALUE="receipt">
<INPUT TYPE="hidden" NAME="custid" VALUE="custid">

FIG. 5
(CONT.)
<INPUT TYPE="hidden" NAME=phone VALUE=phone>
<INPUT TYPE="hidden" NAME=email VALUE=email>
<INPUT TYPE="hidden" NAME=oid VALUE=oid>
<Markup language DBNAME=datasource database='INSERT INTO basket (custid, pid, qty) VALUES (:custid, 6431, 1)'><database DBNAME=datasource database='SELECT cost FROM products WHERE id=6431'><databaseFETCH><EQ NAME='ticketprice' VALUE=1><EQ NAME='total' VALUE=<EVAL EXPR=':ticketprice + :total' PREC='2'>>><Markup language DBNAME=datasource database='INSERT INTO orderdetail (pid, id, qty, sell) VALUES (6431, :oid, 1, :ticketprice)'><Markup language DBNAME=datasource database='INSERT INTO basket (custid, pid, qty) VALUES (:custid, 6428, 1)'><database DBNAME=datasource database='SELECT cost FROM products WHERE id=6428'><databaseFETCH><EQ NAME='ticketprice' VALUE=1><EQ NAME='total' VALUE=<EVAL EXPR=':ticketprice + :total' PREC='2'>>><Markup language DBNAME=datasource database='INSERT INTO orderdetail (pid, id, qty, sell) VALUES (6428, :oid, 1, :ticketprice)'><Markup language DBNAME=datasource database='INSERT INTO basket (custid, pid, qty) VALUES (:custid, 6429, 1)'><database DBNAME=datasource database='SELECT cost FROM products WHERE id=6429'><databaseFETCH><EQ NAME='ticketprice' VALUE=1><EQ NAME='total' VALUE=<EVAL EXPR=':ticketprice + :total' PREC='2'>>><Markup language DBNAME=datasource database='INSERT INTO orderdetail (pid, id, qty, sell) VALUES (6429, :oid, 1, :ticketprice)'><Markup language DBNAME=datasource database='INSERT INTO basket (custid, pid, qty) VALUES (:custid, 6430, 1)'><database DBNAME=datasource database='SELECT cost FROM products WHERE id=6430'><databaseFETCH><EQ NAME='ticketprice' VALUE=1><EQ NAME='total' VALUE=<EVAL EXPR=':ticketprice + :total' PREC='2'>>><Markup language DBNAME=datasource database='INSERT INTO orderdetail (pid, id, qty, sell) VALUES (6430, :oid, 1, :ticketprice)'><INPUT TYPE=hidden NAME=total VALUE=total></FORM></CENTER></P></BODY></markup>

FIG. 5
(CONT.)
<Mark up language>

<REM --- Imports the file "datasource.inc" which creates the variable "datasource" which is used to tell Markup language which ODBC datasource to connect to.

<INCLUDE NAME="database\datasource.inc">

<REM -- In case a database or other type of error occurs, this will display the error message. ->

<ERROR>

<FONT FACE="Verdana,Arial" SIZE="+1">An Error Has Occurred</FONT><P>
<FONT FACE="Verdana,Arial" SIZE="-1">Error Message =
</FONT><P>
<i>_error:txt</i></FONT><P>
<FONT FACE="Verdana,Arial" SIZE="-1">database Error =
</FONT><P>
<i>_databaserror:txt</i></FONT><P>
</ERROR>

<REM --- Begin normal markup language here --->

<markup language>

<HEAD>

<TITLE>Ticketing &amp; Reservation System - Confirmation</TITLE>

</HEAD>

<BODY BACKGROUND="Images\background.jpg" TEXT="#000000" LINK="#006666" VLINK="#006666">

<REM --- Checks to see if the instance "reserve" with a value of --->

<REM --- "receipt" is passed to this page. If so, the codes within --->

<REM --- the iCASE and /CASE tags are executed. This is primarily --->

<REM --- for security purposes as the instanced "reserved" is only --->

<REM --- called in the step immediately before. If a visitor --->

<REM --- accidentally stumbled upon this file, nothing will be run --->

<REM --- unless all previous steps are completed. --->

FIG. 5 (CONT.)
<CASE ALIAS="reserve" VALUE="receipt">
</CENTER>
<TABLE BGCOLOR="#000000" BORDER=0 CELLPADDING=5 CELLSspacing=0 WIDTH=500>
<TR><TD>
</CENTER>
<FONT FACE='Verdana,Arial' SIZE=+1 COLOR="#FFFFFF"><B>Congert Reservation System</B></FONT>
</CENTER>
</TD></TR>
</TABLE>

REM ··· Two steps are combined here: ···
REM ··· 1. The reservation information captured in ···
REM ··· "reserve2.ihtml" is passed to the iPAY tag which ···
REM ··· processes the information and passes it to CyberCash ···
REM ··· for verification. If successful, the tag returns ···
REM ··· "success", otherwise it returns a variation of "fail" ···
REM ··· 2. iIF checks to see if the verification is a success or ···
REM ··· failure. If successful, it will process the codes ···
REM ··· immediately after it, which includes updating the ···
REM ··· database with a successful reservation. If anything ···
REM ··· other than "success" is returned, iIF will skip to ···
REM ··· the iELSE tag and execute all codes thereafter. ···
<IF COND=<iPAY SERVER="C3"

  amount=total
  id=oid
  ccnum="ccnum"

FIG. 5 (CONT.)
The credit card has been approved and the reservation has been processed. The following are the Authorization Code and Receipt Number:

- **Authorization Code:** :i_pay_authnumber
- **Receipt Number:** :ipay_transactionnumber
- **Customer Name:** :name
- **Total Amount:** $:total
- **Credit Card Number:** :ccnum
- **Month of Expiration:** :ccmexp
- **Year of Expiration:** :ccyexp

---

```
REM --- Begin database query to update the "customers" table with customer information captured in "reserve2.html".
<Markup language DBNAME=datasource
database="UPDATE customers" SET contact=':name', phone=':phone, email=':email"
```

**FIG. 5**

(Cont.)
WHERE id=:custid">

<REM --- Begin database query to update the "orders" table is updated with the approval code returned by CyberCash, as well as the transaction information (total charge, credit card number, etc). --->

<Markup language DBNAME=datasource database="UPDATE orders
 SET approvalcode=:i_pay_authnumber,
 receiptnum=:i_pay_transactionnumber, totalcharge=:total, cc=:ccnum, ccm=:ccmexp,
 ccy=:ccyexp
 WHERE id=:oid"
 FAILURE="The information was not saved correctly.">

<REM --- Begin database query to turn off the availability of the seats that have been reserved by setting the "active" attribute of the seats to "0". --->

<database ALIAS="markoff" dbname=:datasource database="SELECT pid FROM orderdetail WHERE oid=:oid">

<databaseFETCH ALIAS="markoff">

<WHILE NOT ALIAS=i_databaseempty>

<Markup language dbname=:datasource database="UPDATE products
 SET active=0
 WHERE id=:markoff_pid">

<databaseFETCH ALIAS="markoff">

</WHILE ALIAS=i_databaseempty>

</database ALIAS="markoff">

</FONT>

<TD></TR>

<TABLE>

<TD></TR>

</TABLE>

FIG. 5

(CONT.)
This transaction could not be processed by Cyber Cash at this time. Either the Credit Card Information was invalid or the Cyber Cash server is currently not available.

FIG. 5 (CONT.)
which verifies and confirms payment information

FIG. 5
(Cont.)
SYSTEM AND METHOD FOR SELECTING AND RESERVING AIRLINE SEATS

CROSS REFERENCE TO RELATED APPLICATIONS


BACKGROUND

This invention relates to an electronic means by which people can select the exact seat or seats they want for any type of event or reserve an appointment for any activity such as a doctor or dentist appointment or even an appointment to have their car lubed. More specifically, a customer or a ticket re-seller or a venue operator can go, for example, to the internet and select the event or activity for which he wants a ticket or tickets or reserve a time, or reserve and order the exact seat or seats or the time of his choosing directly online. The seat or seats or reserved time he selects is then removed from the inventory for that event or activity and made not available for any other buyer and such is so indicated by a graphical representation or other such indicator on the online map or picture representing availability of seating or time for that event. For an appointment reservation, the user connects to the internet or other wide area network, such as a bulletin board, from his home or office computer and connects to a page that displays a reservation calendar with which he can interact, such as to reserve a specific time period for himself.

FIELD OF THE INVENTION

In accordance with the present invention a remote location ticketing and reservation system for any venue comprises an internet or network compatible computer program constructed generally to afford access to a database, or other record maintained in electronic form, containing information about all sold and unsold seating for any specific venue or event and means and method by which a remote user, through use of a computer terminal or other such device, may access said database or other record and receive at his location through any computer terminal or other such device information about which specific seats remain available and then through a computer mouse or keyboard or other such input device select a specific seat or seats for that specific event and reserve such for himself for use during said event.

PRIOR ART

The inadequacies and inefficiencies of present ticketing and reservation systems are recognized and addressed through this invention. The rapid growth of the internet now makes it possible for anyone at his home or office to avail himself of the advantages of the instant invention through a simple internet or other wide area network connection. Prior art makes a feeble attempt to address the inconvenience of ticket ordering. U.S. Pat. No. 5,797,126 (1998), Helbling, et al., describes a series of individual kiosks in wireless communication with a central station where a visitor can locate events of interest, view an excerpt of scenes from that venue and purchase tickets. This falls far short of the instant invention since it still requires a user to physically visit a remote site to avail himself of the service. Additionally, said prior art makes extensive use of what is called “kiosks” implying that, unlike the instant invention, it is only from his specialized machines that such services may be rendered.

U.S. Pat. No. 4,974,252 describes a more interactive theater attendance system where patrons are permitted two way communications between themselves and a broadcast center but this is still far from objectives of the instant invention and requires that persons be in attendance at the theater and, further some attendant be present at the remote broadcast center. The instant invention is fully automated and, other than the normal monitoring of any application for a wide area network, requires no human attendance or intervention.

U.S. Pat. No. 3,427,438 describes a ticket vending system where sales of tickets can be recorded on a seating layout but, again falls far short of the instantaneous update and automatic operation of the instant invention. U.S. Pat. No. 5,333,257 allows for a view from a seat but that is now common for internet applications where a hyperlink to any graphic is routinely provided and ancillary to and even unnecessary to the instant invention. Other prior art does nothing to make ticket ordering or seating reservations more readily available and does nothing to improve the information flow to prospective customers so that they may make a more informed decision about attending any given event.

OBJECTS AND ADVANTAGES

Several objects and advantages of the present invention are:

(a) always provide customers with a seat selection comprised of the total of the then best available seats for any given event;
(b) make equally available to all customers all then available seats for any given event to that said customer, so he may select for himself the seat or seats he wants for that event;
(c) provide an alternative means to visiting box office or a ticket reseller for a customer to select and reserve for himself the then best available seat or seats for any arena, stadium, theater, airline flight or any other such venue where seating is available;
(d) to provide to a ticket sensitive venue operator better control over the seating and seat availability for the various events he offers;
(e) to provide to a ticket sensitive venue operator better accounting of his seating for the various events he offers;
(f) to provide to the general public a more cost effective means by which he may reserve and buy tickets for any given event;
(g) to provide to a venue operator a more cost effective means by which he may sell tickets for any given event;
(h) to provide to the general public an automated 24 hours a day, seven days a week means by which he may reserve and purchase the specific seats he wants for an event;
(i) to provide to a venue operator an automated 24 hours a day, seven days a week means by which he may offer...
reservation and purchase of a seat or seats that are individually selectable by a customer;
(j) to permit the venue operator to avoid overbooking an event;
(k) to permit a doctor or other professional for whom his time is a commodity to better schedule and regulate his time and interact with patients or others in the online environment;
(l) to provide to the general public a 24 hours a day, seven days a week means by which they may schedule appointments with doctors, dentists, automotive mechanics and the like with full knowledge that the appointment time they select is still available.

Further objects and advantages are to provide any venue operator the benefit of better control over his ticket inventory and sales such as to improve his profitability and the efficiency of his operation and to provide to the general ticket buyer public better information and an easier means by which they may acquire their desired ticket or tickets for any event.

SUMMARY

The ticketing and reservation system of the present invention, in one particular embodiment thereof, includes a computer program operating on a server for a wide area network (WAN), generally described by the flow chart of FIG. 1 and the accompanying code example which implements the instant invention in practice:

First, when a user accesses the system means is provided to initialize the process and return to the user a menu from which he selects his venue of interest. This can be a selectable menu arranged by artist or date or time or specific theater or football team or baseball team or name or activity or any combination thereof such that the user is given sufficient information from which to make a decision. An example would be someone looking for the next event at a given theater at a time that starts at 7:00 pm. One of many possible series of computer instructions to perform this function is:

Send database query to retrieve all venues that are currently available in the system
Server receives and processes query
Query is looped until all available performances and venues are retrieved

Markup Language engine converts result to display compatible format for output to client computer
Begin normal markup language here
Continue reservation process selecting the event date/time next to the desired venue
THEN, upon user submittal, the server initializes the process of returning to the user all available seats:
Send database query to retrieve all seats that are currently available in the system for this event
Server receives and processes query
Query is looped until all available seats are retrieved
Markup language engine converts result to markup language format for output to client computer
Begin normal markup language here
Continue reservation process by selecting the desired seat or seats
THEN, upon user submittal we create a new customer record in the Wide Area Network server and tell the system which database to connect to fulfill the user’s request(s):
Send database command to insert new record in customer database and obtain record id

BRIEF DESCRIPTION OF THE DRAWINGS

The aforementioned objects and advantages of the present invention as well as additional objects and advantages thereof will be more fully understood hereinafter as a result of a detailed description of a preferred embodiment when taken in conjunction with the following drawings in which:

FIG. 1 is a block diagram of the present invention illustrating the major components thereof and the interactivity that takes place between the potential customer and the instant invention.
FIG. 2 is an illustration of the concept of the present invention utilizing the internet as the Wide Area Network to which users connect to perform the desired function and shows an example of a remotely located user accessing the functionality of the instant invention for purposes of reserving seats for a dinner theater performance in a distant city.
FIGS. 3A and 3B are illustrations of the concept of the present invention refined down to the functionality of reserving specific seats and blocking duplicate sale of those seats that are already reserved.
FIGS. 4A to 4E are sample screens seen by a remote user of the instant invention during a session wherein he selects and orders four specific seats for a distant dinner theater show.
FIG. 5 is a complete code set for one preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIG. 1, it will be seen that the operator of a venue implements the instant invention for purposes of allow-
ing remotely located users to reserve specific seating for specific events 1. By doing so, he initiates those certain actions necessary to display an internet web site to all online users 2. A prospective customer for the venues offering(s) logs onto the internet 3 and acquires the aforesaid internet web site 4 which implements the instant invention. He can be connected to the internet by any conventional means yet this by no means implies that the wide area network must be what is commonly referred to as the "internet." Upon first contact by the prospective customer, an inquiry is directed to the appropriate database, which may be located concurrently with the primary server hosting the program for the instant invention or may be located remotely, such as at the physical location of the venue, asking for a return of information to the prospective customer of all appropriate information contained therein relative to his inquiry 5. The prospective customer indicates his desired seat or seats through conventional computer input means and directs that information back to the server hosting the code necessary to the implementation of the instant invention 6. Upon contact 7 the server again makes an appropriate database query and returns to the prospective customer all pertinent information relating to his selection, such as which seats are still available for the chosen performance, airline flight, boxing match, etc. The prospective customer is then presented with a representation of all then available seating for his selected venue 8. From this representation, the prospective customer makes his selection of a seat or seats by indicating such through a mouse click, keyboard entry or other means, such as but not limited to a touch screen. Simultaneously, the server, through the coding necessary to implement the instant invention, creates a temporary customer identification 9 that is used to associate this potential customer with this later selection and permit system use by multiple simultaneous users. Once the customer has made his seat selection he is asked for payment information 10. That information is processed through conventional internet or other electronic means and once the information and payment are verified 11 the customer information, as supplied in 10, is made permanent and the seat or seats he has selected are removed from inventory and blocked from duplicate sale, both graphically when presented to the next prospective customer and in the database where information for accounting and administrative purposes is retained. If the customer's payment information cannot be verified 11b then he is given an opportunity to correct the information or start over with a new transaction. Upon verification of the customer's payment information he receives a confirmation of the transaction 13 containing all appropriate reference information for his records.

Referring to FIG. 2, it will be seen that, for example, a user in Houston 13 is planning to vacation in New York and wishes to see a play at a dinner theater there that utilizes the present invention 6. Upon contact 7 the server again makes an appropriate database representation by placing an "X" over those seats 19 while retaining the "X" over those seats previously sold at table P11 20 and table S14 21. The next prospective customer is advised that these seats are no longer available for this performance by the new graphical representation shown in FIG. 3B that is his first viewing screen upon entry into the system. In the event that two prospective customers wish to reserve the exact same seat or seats, that prospective customer who first receives validation of his payment method is given those seats while the other prospective customer is notified that while making his decision the seats he wants have already been sold and offers him a chance to select other seating.

Referring to FIGS. 4A to 4E, one will see the screens presented to a user when he accesses the system and as he progresses through the process of selecting a specific seat or seats, then reserves and pays for them. FIG. 4A is where the first screen presented shows links to available performances for that selected venue 22. FIG. 4B is the second screen 23 and shows a view of the seating available for that venue with seats that have already been taken crossed off with an "X" 24. Our hypothetical user decides that he would like to have his party of four sit at table s1 25 and selects the four seats around that table by clicking on them with his mouse. As he moves his mouse over individual seats the seat number appears in the open window at the bottom of his screen 26 and when he clicks on a seat it is added to a running tally of the seats he has already taken 27. Only seats that have not previously been taken show up in the mouse-over window 26. After completing his selections the user clicks on the "Reserve Seats" button and FIG. 4C shows his next screen, which asks him for his payment information 28. He enters the required information and again clicks the "Reserve Seats" button 29. FIG. 4D is the next screen and it tells him that his payment method has been accepted (or rejected) and relates information about the transaction 30 such as his transaction code and the receipt number that he can use as a ticket or as a voucher with which to redeem his ticket or tickets at the venue box office when he arrives for the performance. Finally, FIG. 4E shows the open window the next visitor to the system is presented with the same set of screens except that the seats reserved by our hypothetical user 31 are marked off as already taken.

Referring to FIG. 5, one will see one of many possible coding schemes making possible the results of the present invention.

Those having skill in the art to which the present invention pertains will now understand that there are virtually unlimited uses for the present invention. By way of example, the present invention may be readily used to reserve specific seats on commercial airliners or reserve specific staterooms on a cruise ship, as well as for reserving seats for any venue from community theater or little league baseball to major league sporting events.

The present invention has been described in sufficient detail to enable one skilled in the art to make and use the invention. Accordingly, specific details which are readily available in the art or otherwise conventional have been omitted to prevent obscuration of the essential features of the invention.

In view of the foregoing it will be understood that the present invention may be implemented in a variety of alternative methods but that all such implementations are deemed
What is claimed is:

1. A computer-implemented method for interactively providing seating information to an end user over a network, the method comprising:
   transmitting first data to an application running on a home or office personal computing device, the first data including information descriptive of available individual seats at a venue, the first data configured to enable the application to generate an interactive seating display on the home or office personal computing device representing individual seats at the venue, the first data enabling the application to generate an additional display of information about one or more of the individual seats in response to the end user placing a location indicator over a portion of the interactive seating display; receiving second data representing a seat selected by the end user;
   5
   receiving from the home or office personal computing device third data representing payment information; requesting acceptance of the received payment information; and
   if the received payment information is accepted, then transmitting fourth data to a personal computing device associated with a second user, the fourth data including information indicating that the seat selected by the end user is no longer available.

2. The computer-implemented method of claim 1, further comprising, if the received payment information is accepted, transmitting fifth data to the end user, the fifth data including information that can be printed as an admission document or voucher.

3. The computer-implemented method of claim 1, wherein the first data is transmitted to a home or office or remotely located computer.

4. The computer-implemented method of claim 1, wherein the home or office personal computing device is stationary.

5. The computer-implemented method of claim 1, wherein requesting acceptance of the received payment information comprises transmitting encrypted payment information to a validation server.

6. The computer-implemented method of claim 1, wherein placing a location indicator comprises placing a mouse indicator over a portion of the interactive seating display.

7. The computer-implemented method of claim 1, wherein placing a location indicator comprises placing a location indicator over a portion of the interactive seating display on the personal computing device representing individual seats at the venue, the first data processed by the application to generate an interactive seating display indicating the seating type of each of the individual seats, the first data transmitted by the personal computing device to a server coupled to the personal computing device for interactively providing seating information to an end user over a network, the method comprising:
   receiving, via an application running on the personal computing device from a server coupled to the personal computing device over the network, first data including information descriptive of available individual seats at a venue, the first data processed by the application to generate an interactive seating display on the personal computing device representing individual seats at the venue, each of the individual seats at the venue being associated with one of a plurality of seating types, the interactive seating display indicating the seating type of each of the individual seats, the first data processed by the application to generate an additional display of information about each or more of the individual seats in response to a location indicator being positioned over a portion of the interactive seating display; transmitting third data representing payment information; if the transmitted payment information is accepted, receiving fourth data, the fourth data including information that can be printed as an admission document or voucher.

8. The computer-implemented method of claim 15, wherein the personal computing device is stationary.

9. The system of claim 8, wherein the server is further programmed to transmit, if the received payment information is verified, fifth data to the application running on the home or office personal computing device, the fifth data including information that can be printed as an admission document or voucher.

10. The system of claim 8, wherein the first data is transmitted to a home or office or remotely located computer.

11. The system of claim 8, wherein the home or office personal computing device is stationary.

12. The system of claim 8, wherein requesting acceptance of the received payment information comprises transmitting encrypted payment information to a validation server.

13. The system of claim 8, wherein placing the location indicator comprises placing a mouse indicator over the portion of the interactive seating display.

14. The system of claim 8, wherein placing the location indicator comprises placing the location indicator over the portion of the interactive seating display by a touch screen input.

15. A computer-implemented method running on a home or office personal computing device for interactively providing seating information to an end user over a network, the method comprising:
   transmitting first data to an application running on a home or office personal computing device, the first data including information descriptive of available individual seats at a venue; and
   a server programmed via executable instructions to:
   query the data storage system for information descriptive of available individual seats at the venue; transmit first data to an application running on a home or office personal computing device representing individual seats at the venue, the first data including information descriptive of available individual seats at the venue, the first data configured to enable the application to generate an interactive seating display on the home or office personal computing device representing individual seats at the venue, the first data capable of enabling the application to generate an additional display of information about one or more of the individual seats in response to the end user; transmitting second data representing a seat selected by the end user;
   receiving second data representing a seat selected by the end user;
   receive from the home or office personal computing device third data representing payment information; request acceptance of the received payment information; and
   if the received payment information is accepted, then transmit fourth data to a personal computing device associated with a second user, the fourth data including information indicating that the seat selected by the end user is no longer available.

16. The computer-implemented method of claim 15, wherein the personal computing device is stationary.

17. The computer-implemented method of claim 15, wherein the first data is received by a home or office or remotely located computer.

18. The computer-implemented method of claim 15, wherein the first data is processed by the application to generate an additional display of information about one or more
of the individual seats in response to a mouse indicator being positioned over a portion of the interactive seating display.

19. The computer-implemented method of claim 15, wherein the first data is processed by the application to generate an additional display of information about one or more of the individual seats in response to a location indicator being positioned over a portion of the interactive seating display by one or more mouse clicks.

20. The computer-implemented method of claim 15, wherein the first data is processed by the application to generate an additional display of information about one or more of the individual seats in response to a location indicator being positioned over a portion of the interactive seating display by a touch screen input.
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 2 (Title page 3 item 56) at line 15, Under Other Publications, change “conn” to --com--.

In column 2 (Title page 3 item 56) at line 72, Under Other Publications, change “Implementations” to --Implementations--.

In column 1 (Title page 4 item 56) at line 48, Under Other Publications, change “Uneforceability,” to --Unenforceability,--.

In column 1 (Title page 4 item 56) at line 53, Under Other Publications, change “Uneforceability,” to --Unenforceability,--.

In column 1 (Title page 4 item 56) at line 64, Under Other Publications, change “warganne),” to --wargame),--.

In column 2 (Title page 4 item 56) at line 67, Under Other Publications, change “Indstry” to --Industry--.

In column 1 (Title page 5 item 56) at line 24, Under Other Publications, change “Termial” to --Terminal--.

In column 1 (Title page 7 item 56) at line 27, Under Other Publications, change “.htmi,” to --.html,--.

In column 2 (Title page 7 item 56) at line 53, Under Other Publications, change “Animanted” to --Animated--.

In column 1 (Title page 8 item 56) at line 32, Under Other Publications, change “jdkl.l” to --jdk1.1--.

In column 1 (Title page 8 item 56) at line 44, Under Other Publications, change “Indroduction,” to --Introduction,--.

Signed and Sealed this
Ninth Day of April, 2013

Teresa Stanek Rea
Acting Director of the United States Patent and Trademark Office
CERTIFICATE OF CORRECTION (continued)
U.S. Pat. No. 8,244,561 B2

Page 2 of 3

In column 1 (Title page 8 item 56) at line 45, Under Other Publications, change “(1 of2)” to --(1 of 2)--.

In column 1 (Title page 8 item 56) at line 47, Under Other Publications, change “Introduction,” to --Introduction,--.

In column 1 (Title page 8 item 56) at line 48, Under Other Publications, change “(1 of2)” to --(1 of 2)--.

In column 1 (Title page 8 item 56) at line 51, Under Other Publications, change “(1 of2)” to --(1 of 2)--.

In column 1 (Title page 10 item 56) at line 62, Under Other Publications, change “Sweeptakes” to --Sweepstakes--.

IN THE DRAWINGS

Sheet 12 of 30 (FIG. 5 CONT.) at line 7, Change “<`Table>” to --</Table>--.
Sheet 13 of 30 (FIG. 5 CONT.) at line 16, Change “`+idnurn+”,” to --“+idnum+”-,--.
Sheet 14 of 30 (FIG. 5 CONT.) at line 4, Change “old,” to --oid,--.
Sheet 15 of 30 (FIG. 5 CONT.) at line 22, Change “corrds,” to --coords,--.
Sheet 18 of 30 (FIG. 5 CONT.) at line 13, Change ““resve1.ihtml”” to --“reserve1.ihtml”--.
Sheet 19 of 30 (FIG. 5 CONT.) at line 14, Change “.ihtmr>” to --.ihtml>-
Sheet 19 of 30 (FIG. 5 CONT.) at line 15, Change ““resve1.ihtml”” to --“reserve1.ihtml”--.
Sheet 19 of 30 (FIG. 5 CONT.) at line 28, Change “combines” to --combines--.
Sheet 22 of 30 (FIG. 5 CONT.) at line 22, Change “ip and” to --id is--.
Sheet 22 of 30 (FIG. 5 CONT.) at line 23, Change “attrieval” to --retrieval--.
Sheet 22 of 30 (FIG. 5 CONT.) at line 26, Change “(ip,” to --(id,--.
Sheet 22 of 30 (FIG. 5 CONT.) at line 27, Change “(’i_ip’,1)” to --(‘i_id’,1)--.
Sheet 23 of 30 (FIG. 5 CONT.) at line 13, Change ““resere3.ihtml”.” to --“reserve3.ihtml”--.
Sheet 23 of 30 (FIG. 5 CONT.) at line 21, Change ““resere3.ihtml”” to --“reserve3.ihtml”--.
Sheet 27 of 30 (FIG. 5 CONT.) at line 19, Change “:ipay_” to --:i_pay_--.

IN THE SPECIFICATIONS

In column 6 at line 2, Change “sl” to --Sl--.
In column 6 at line 28, Change “sl” to --Sl--.
In column 7 at line 2, Change “hereto:” to --hereto.--
In column 7 at line 21, Before “receiving from the home or office” insert --storing, on a data storage system, a record associated with the selected seat;--.
In column 8 at line 5, Before “receive from the home or office” insert --store, on a data storage system, a record associated with the selected seat;--.

In column 8 at line 7, Change “acceptance” to --verification--.

In column 8 at line 9, Change “accepted” to --verified--.

In column 8 at line 10, Before “transmit fourth data to a personal computing device” insert --update the data storage system to remove the selected seat from available inventory and--.