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(12) **United States Patent**  
**Rowe**

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(54) **DIGITAL IDENTIFICATION OF UNIQUE GAME CHARACTERISTICS**

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(52) **U.S. Cl.** ..... **380/251**; 463/29; 713/180

(58) **Field of Classification Search** ..... 463/29;  
713/176, 179, 180; 380/270, 251  
See application file for complete search history.

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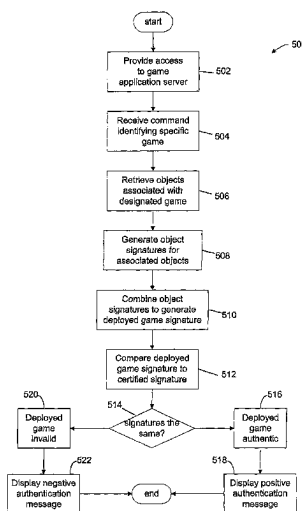
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(57) **ABSTRACT**

Methods and apparatus are described for generating a gaming application signature which uniquely represents a gaming application having a plurality of gaming application objects associated therewith. A subset of the plurality of gaming application objects are retrieved. An object signature is generated for each of the retrieved gaming application objects. The object signatures are combined to generate the gaming application signature.

**51 Claims, 6 Drawing Sheets**





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(12) **United States Patent**  
**Rowe**

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(54) **METHOD AND APPARATUS FOR GRAPHICALLY PORTRAYING GAMING ENVIRONMENT AND INFORMATION REGARDING COMPONENTS THEREOF**

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Primary Examiner—Ronald Laneau

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Assistant Examiner—Travis Banta

(65) **Prior Publication Data**

(74) Attorney, Agent, or Firm—Dean E. Wolf; Beyer Weaver LLP

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(58) **Field of Classification Search** ..... 705/1, 705/14; 463/42, 29, 32, 33, 25, 30, 31  
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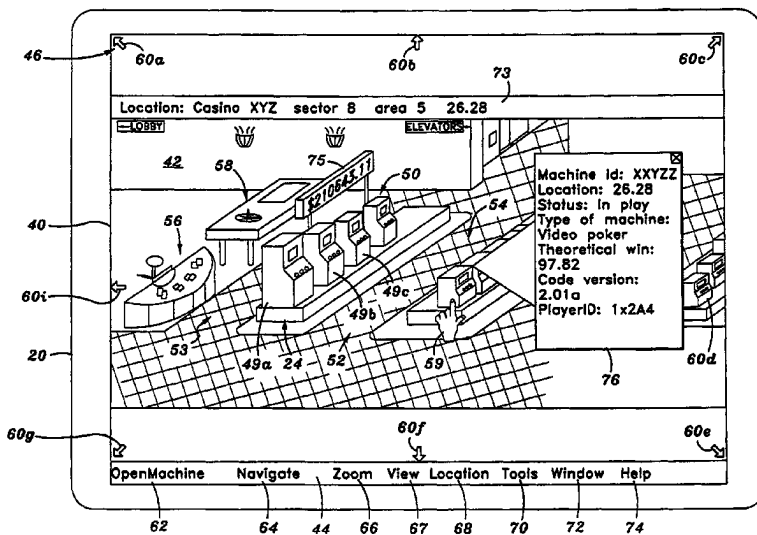
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(57) **ABSTRACT**

A method and apparatus for providing a graphical representation of a gaming environment and for providing information regarding individual components or persons located in the environment are provided. The invention includes a graphical user interface which displays a graphical representation of at least a portion of a gaming environment, such as a graphical representation of individual components of a gaming system and their surrounding physical environment. The components are graphically portrayed in positions corresponding to the relative positions of the actual components of the gaming system. The components are also graphically displayed in a graphically reproduced environment which represents the actual environment, such as a casino, in which the actual gaming system components are located. By selecting a graphically represented component, information regarding the actual gaming system component which is represented is provided, such as by display in a window associated with the graphical user interface.

**54 Claims, 5 Drawing Sheets**



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11/221,314 6 September 2005 (06.09.2005) US
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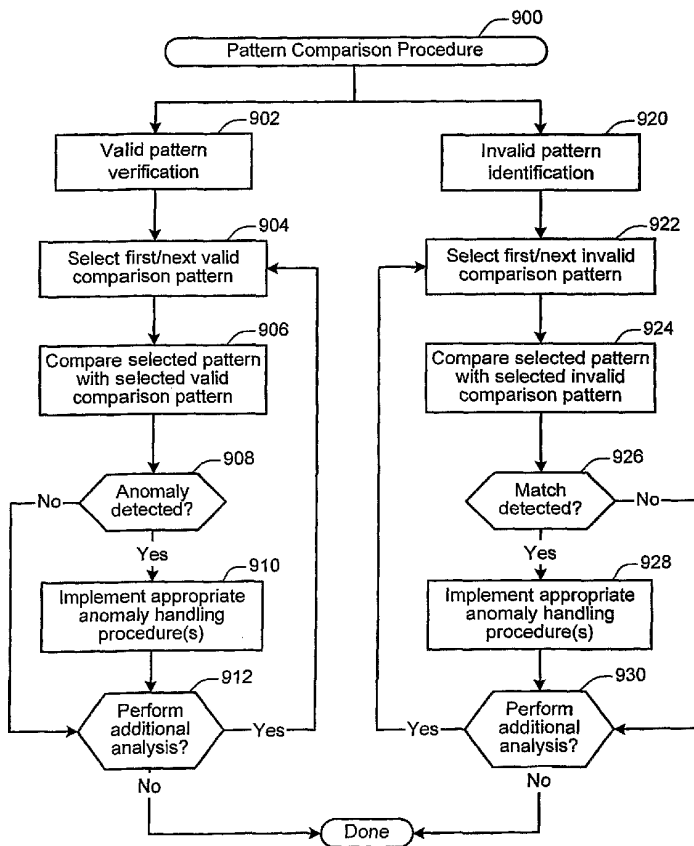
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KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,  
LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ,  
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[Continued on next page]

(54) Title: DATA PATTERN VERIFICATION IN A GAMING MACHINE ENVIRONMENT



(57) Abstract: A technique is disclosed for detecting at least one anomaly associated gaming data, wherein the gaming data is associated with a first casino gaming machine. A first portion of gaming data is selected for analysis. According to a specific embodiment, the first portion of gaming data corresponds to a first data pattern. A first comparison pattern relating to the first data pattern is also selected. A comparison is then performed in which the first comparison pattern is compared with a first portion of the first data pattern. Based upon the results of the comparison, a determination may be made as to whether at least one anomaly is detected in association with the first data pattern.

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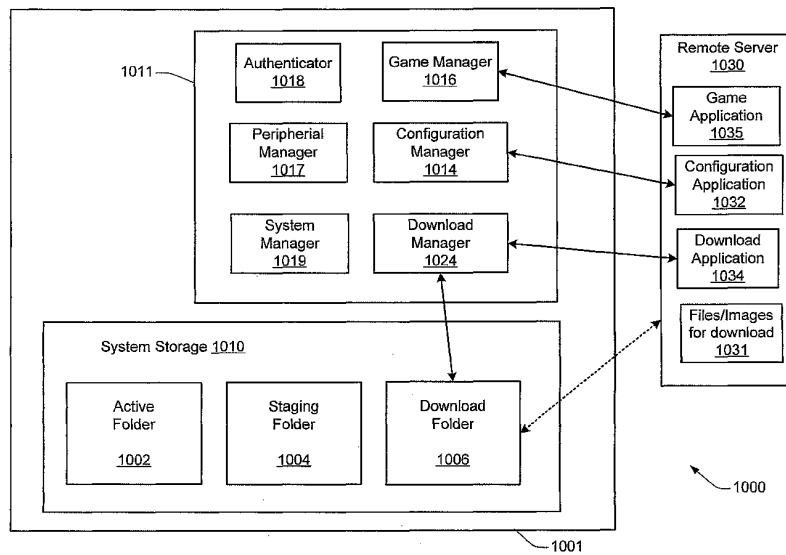
(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
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KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,  
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SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,  
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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,  
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(54) Title: GAMING MACHINE UPDATE AND MASS STORAGE MANAGEMENT



(57) Abstract: Different mechanisms are provided to enable a gaming machine to download files/images, move/copy the files/images from one folder to another without breaking authentication, and resume interrupted file manipulation operations such as move/copy operations and/or download operations which have been interrupted by a power hit. In this way, the technique of the present invention is able to provide a self- diagnostic system for ensuring authenticated, atomic transactions, and for automatically handling detected error conditions. Additionally the technique of the present invention is able to provide a mechanism for seamlessly updating gaming machine components at runtime. This may include, for example, the automatic mounting and/or unmounting of selected games to/from the gaming machine memory during runtime.

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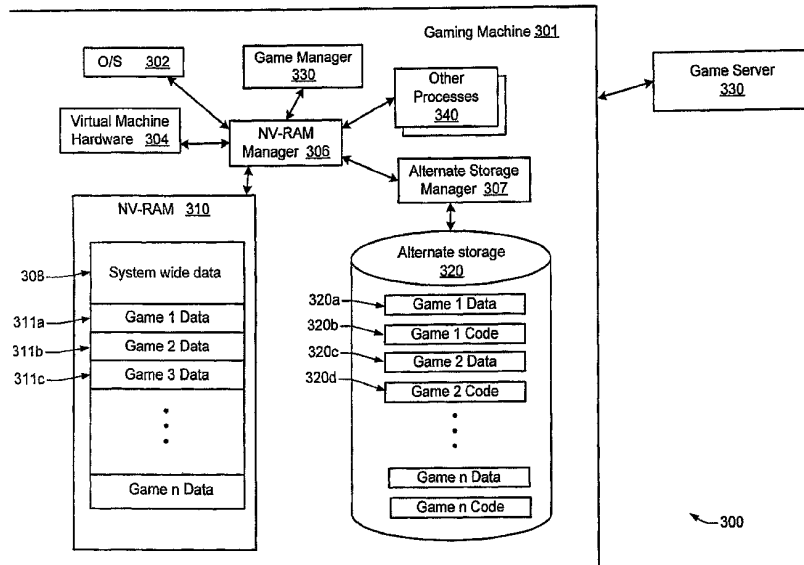
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(54) Title: NON-VOLATILE MEMORY MANAGEMENT TECHNIQUE IMPLEMENTED IN A GAMING MACHINE



(57) Abstract: Various embodiments of the present invention are directed to different techniques for managing the storage of accumulated information in selected non-volatile memory sources at a gaming machine. In one implementation of the present invention relates to a technique for automatically and dynamically swapping critical data and/or other game related information between the non-volatile RAM and the alternate storage (e.g., disk drive) of a gaming machine as new games are activated and/or existing games are deactivated at the gaming machine.

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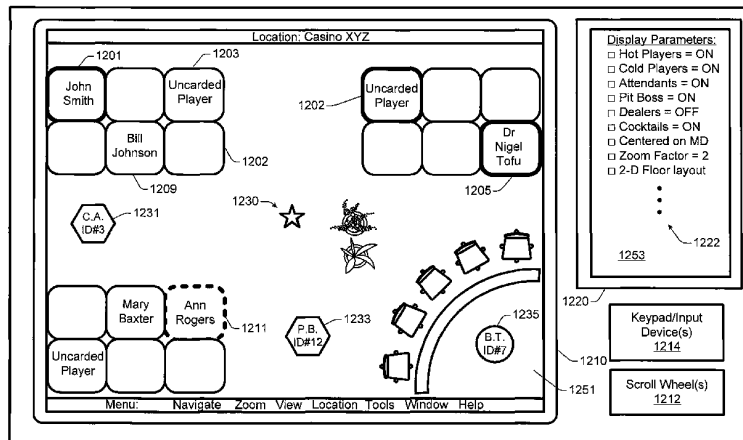
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(54) Title: MOBILE DEVICE FOR PROVIDING FILTERED CASINO INFORMATION BASED ON REAL TIME DATA



(57) Abstract: A technique is disclosed for displaying filtered casino-related information on a mobile device. In one implementation aspects of the inventions may be embodied in a mobile device which includes at least one interface operable to provide a wireless communication link to other network device in a casino data network. According to various embodiments, casino information relating to various casino activities may be acquired by the mobile device and/or other devices in the casino network. Geolocation information relating to a current location of the mobile device may also be acquired. A first set of filter parameters may be identified and/or generated for use in generating filtered casino information. Filtered casino information may be generated by applying the first set of filter parameters and geolocation information to the acquired casino information. At least a portion of the filtered information may be displayed to a user via a display at the mobile device.

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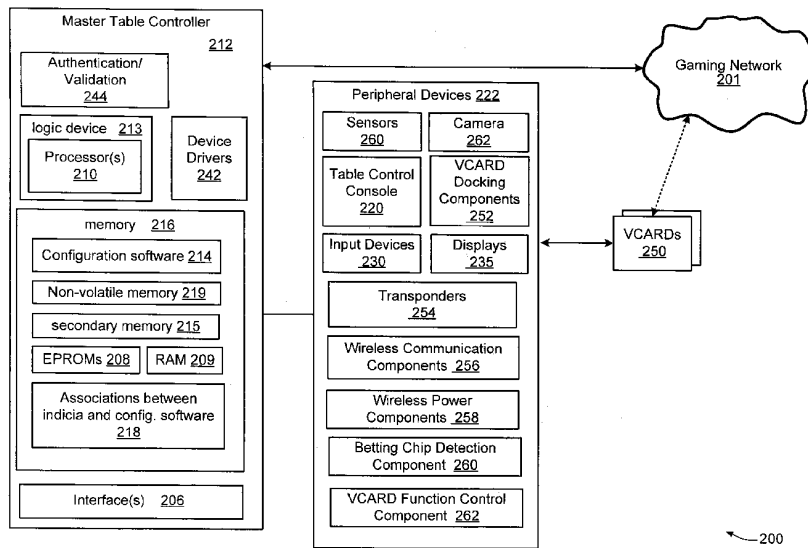
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- (71) Applicant (for all designated States except US): IGT  
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(54) Title: INTELLIGENT CASINO GAMING TABLE AND SYSTEMS THEREOF



(57) Abstract: A technique is disclosed for facilitating play of a casino table game at a casino gaming table system which includes a casino gaming table and at least one handheld device. At least a portion of operations or activities relating to the casino game may be performed at a first handheld device. Examples of such operations may include electronically dealing a first card to a first player via the first handheld device, displaying a representation of the first card to the first player via a display at the first handheld device, etc. In at least one embodiment, an association between a selected handheld device and the first player station may be created and used for subsequent game play activities to enable the selected handheld device to be operable to display game play data relating to game play activities associated with the first player station.

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(71) Applicant: IGT [US/US]; 9295 Prototype Drive, Reno, Nevada 89521-8986 (US).

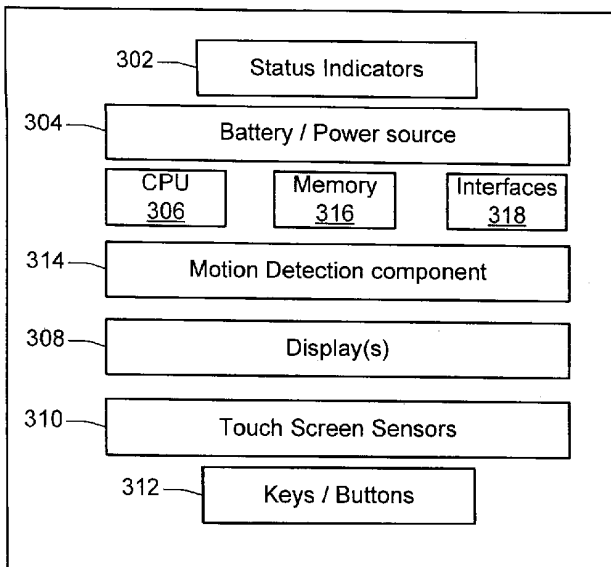
(72) Inventors; and

(75) Inventors/Applicants (for US only): NGUYEN, Binh [US/US]; 13210 West Saddlebow Drive, Reno, Nevada 89511 (US). GUM, Kevin [US/US]; 2407 Albatross Way, Sparks, Nevada 89441 (US). GRISWOLD, Chauncey [US/US]; 1160 Monroe Court, Reno, Nevada 89509 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: INTELLIGENT WIRELESS MOBILE DEVICE FOR USE WITH CASINO GAMING TABLE SYSTEMS



(57) Abstract: A technique is disclosed for facilitating play of a casino table game at a casino gaming table system which includes a casino gaming table and at least one handheld device. At least a portion of operations or activities relating to the casino game may be performed at a first handheld device. Examples of such operations may include electronically dealing a first card to a first player via the first handheld device, displaying a representation of the first card to the first player via a display at the first handheld device, etc. In at least one embodiment, an association between a selected handheld device and the first player station may be created and used for subsequent game play activities to enable the selected handheld device to be operable to display game play data relating to game play activities associated with the first player station. In some embodiments, at least a portion of the features of a selected handheld device may be enabled/disabled based on the detection of one or more conditions or events. According to specific embodiments, the handheld device may be adapted to provide various functionality for facilitating game play at a casino gaming table. Examples of such functionality may include, for example, allowing a player to

select cards for discard/holding; allowing a player to perform wagering activities; retrieving and/or displaying player tracking data; retrieving and/or displaying player account data; displaying game play assistance information; displaying casino layout information; displaying promotional information; etc.

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Samuel [US/US]; 5645 Oak Street, Las Vegas, Nevada 89120 (US). PANKAS, Steven, M. [US/US]; 804 Fetter Court, Henderson, Nevada 89052 (US). MCPHAIL, Gavin [US/US]; 9991 Willowbrook Pond Rd., Reno, Nevada 89148 (US).

(21) International Application Number:  
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(74) Agents: WOLF, Dean, E. et al.; Beyer Weaver LLP, P. O. Box 70250, Oakland, California 94612-0250 (US).

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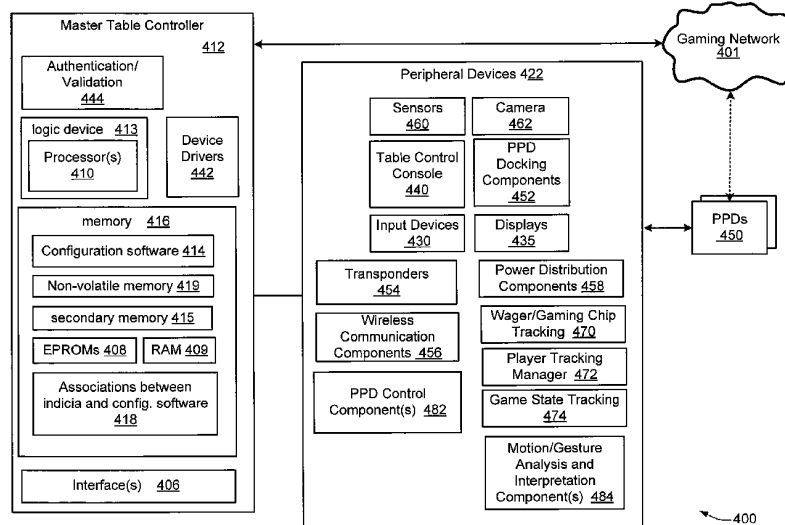
(71) Applicant (for all designated States except US):  
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(72) Inventors; and  
(75) Inventors/Applicants (for US only): BURRILL, Nevin, A. [US/US]; 832 Winterra Court, Henderson, Nevada 89015 (US). MOSER, Timothy, W. [US/US]; 3733 Robert McGuire Court, Las Vegas, Nevada 89129 (US). HARRIS, Roger, William [US/US]; 10725 Stone Hollow Drive, Reno, Nevada 89521 (US). MEZA, Eduardo,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AUTOMATED PLAYER DATA COLLECTION SYSTEM FOR TABLE GAME ENVIRONMENTS



(57) Abstract: Various techniques are disclosed for facilitating player tracking activities and/or player rating activities at a casino gaming table. One aspect is directed to different techniques for automatically starting, suspending, resuming and/or ending player tracking sessions at one or more table games. Another aspect is directed to different techniques for automatically starting, suspending, resuming and/or ending player rating sessions at one or more table games. Another aspect is directed to different techniques for automatically starting, suspending, resuming and/or ending flat rate table game sessions at one or more gaming tables.

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- (71) **Applicant (for all designated States except US):**  
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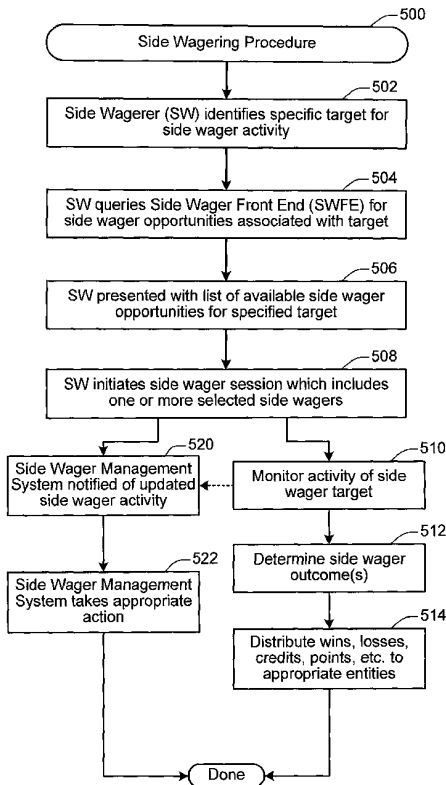
(74) **Agents:** WOLF, Dean, E. et al.; Beyer Weaver LLP, P. O. Box 70250, Oakland, California 94612-0250 (US).

(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) **Title:** DYNAMIC SIDE WAGERING SYSTEM FOR USE WITH ELECTRONIC GAMING DEVICES



(57) **Abstract:** A technique is disclosed for facilitating side wagering activities conducted at a casino which includes a casino gaming network and a plurality of gaming machines. In at least one embodiment, a casino side wagering system may be utilized to enable casinos operators to provide side wagering opportunities to players who wish to place side wagers on the outcomes of another player's game play activities conducted at a gaming machine or gaming table.

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- (71) Applicant (for all designated States except US):  
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- (75) Inventors/Applicants (for US only): **GADDA, Chris**  
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- (74) Agents: **WOLF, Dean, E.** et al.; Weaver Austin Villeneuve  
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- (81) Designated States (unless otherwise indicated, for every  
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EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,  
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC,  
LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN,  
MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV,  
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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
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FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,  
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(54) Title: VIRTUAL MOVABLE MECHANICAL DISPLAY DEVICE

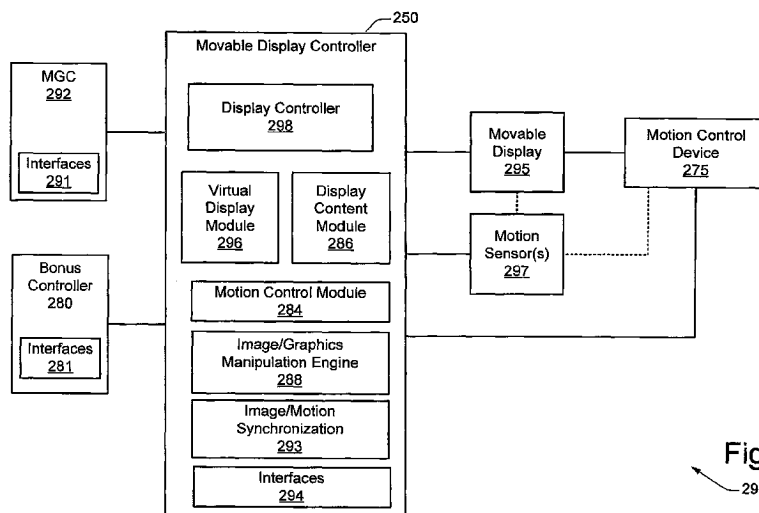


Fig. 2B  
299

(57) Abstract: Various techniques are disclosed for displaying content on a movable display device. According to specific embodiments, content to be projected onto a first surface portion of the movable display device may be identified. At least one operation may be performed to determine movement characteristics associated with the movable display device during a first time period when the movable display device is moving. At least one operation may be performed to coordinate a first portion of the content to be projected with movement of the movable display device in a manner such that, when the first portion of content is projected onto the movable display device, the projected content is coordinated with movement of the movable display device. The first portion of content may then be projected onto the first surface portion of the movable display device during the first time period.

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- (71) Applicant (for all designated States except US):  
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- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MATTICE,  
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Drive, Sparks, Nevada 89441 (US).

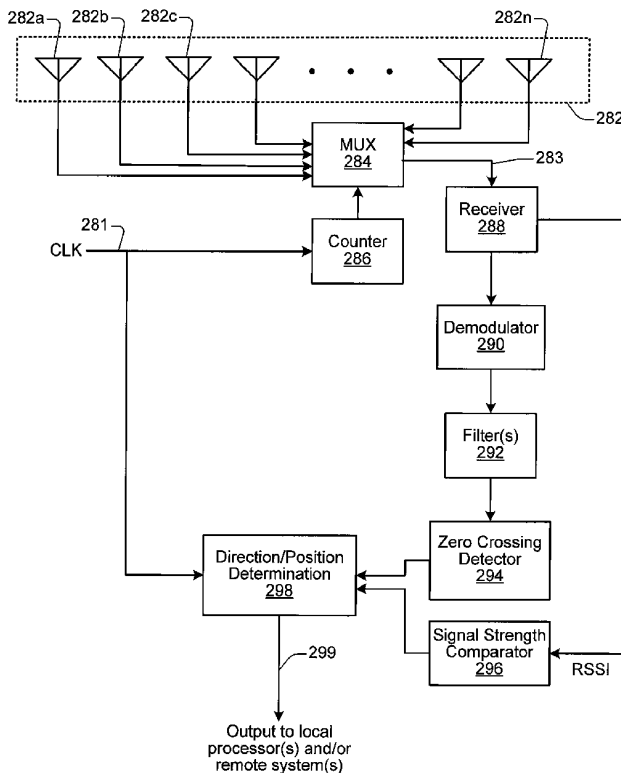
(74) Agents: WOLF, Dean, E. et al.; Weaver Austin Villeneuve  
& Sampson, P. O. Box 70250, Oakland, California 94612-  
0250 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
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CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,  
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,  
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC,  
LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN,  
MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV,  
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kind of regional protection available): ARIPO (BW, GH,

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(54) Title: RADIO DIRECTION FINDER FOR GAMING CHIP AND/OR PLAYER TRACKING



(57) Abstract: Various techniques are disclosed for  
facilitating tracking locations of players and/or wireless  
communication devices in a casino network. In at  
least one embodiment, an electronically switched  
Doppler antenna array may be utilized to detect a first  
wireless signal from a first signal source. Bearing  
information may be generated using information from  
the detected signal. In at least one embodiment, the  
bearing information may include a first directional  
bearing to the first signal source. Using at least a  
portion of the first bearing information, a first location  
of the first signal source may be determined. According  
to specific embodiments, the first signal source may  
correspond to a wireless communication device such as  
an RFID-enabled player tracking card or gaming chip.  
In at least one embodiment, a current location of the  
wireless communication device may be automatically  
tracked in real-time as the wireless communication  
device is moved through a first region of the casino.

280  
Fig. 2

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(71) Applicant (for all designated States except US): IGT  
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(US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): NGUYEN, Binh,  
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(74) Agents: WOLF, Dean, E. et al.; Weaver Austin Vil-  
leneuve & Sampson LLP, P.O. Box 70250, Oakland,  
California 94612-0250 (US).

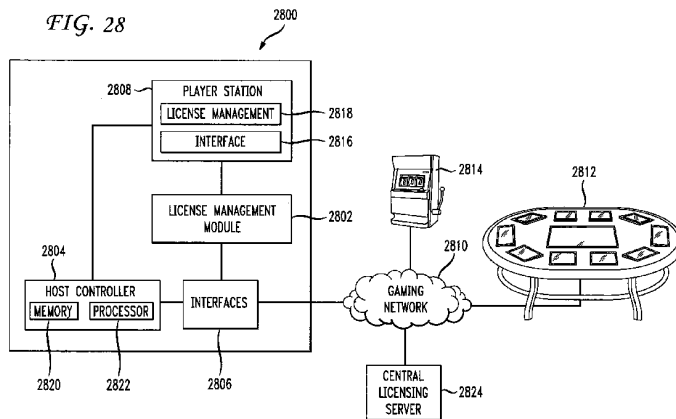
(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
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EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,  
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC,  
LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN,  
MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV,  
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(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,  
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(54) Title: WAGER GAME LICENSE MANAGEMENT IN A GAME TABLE



(57) Abstract: Novel wager gaming systems and methods for game license management utilizing a game table connected in a network at a gaming establishment are described. A game table having multiple player stations, equipped with gaming devices, performs as a local licensing server for the player stations at the game table. It may also function as a licensing server for player stations at other game tables and for gaming machines in the network. The wager game table may be connected to a central licensing server with operates in conjunction with the wager game table. A player station may also have certain license management components that may complement the operations of a game table license management module. The game table may perform certain local licensing and auditing functions for each player station with regard to wager game code and other game-related content and operational software. The management module may also monitor the usage of various types of wager game code, related content, and game-related software. These usage data are maintained by the game table and may be used for auditing purposes.

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- (71) **Applicant (for all designated States except US):** IGT [US/US]; 9295 Prototype Drive, Reno, NV 89521 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **GRISWOLD, Chauncey, W.** [US/US]; 1160 Monroe Court, Reno, NV 89509 (US). **MATTICE, Harold, E.** [US/US]; 1271 Bolivia Way, Gardnerville, NV 89460 (US). **GADDA, Christian, E.** [US/US]; 1180 Del Lilly Lane, Las Vegas, NV 89123 (US). **WILDER, Richard, L.** [US/US]; 8960

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(74) **Agents:** **WOLF, Dean, E.** et al.; Weaver Austin Villeneuve & Sampson LLP, P.O. Box 70250, Oakland, CA 94612-0250 (US).

(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) **Title:** VIRTUAL CASINO HOST

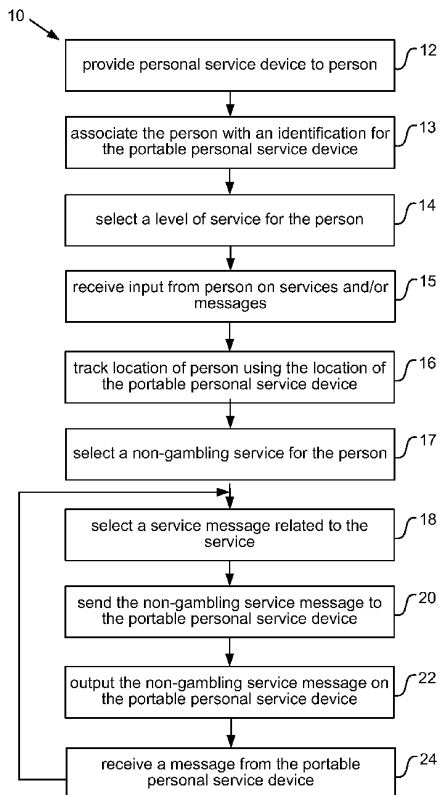


Figure 1

(57) **Abstract:** Described herein are systems and methods that improve personalized service in a casino or other gaming establishment. The systems and methods provide a portable personal service device to a person; the device permits the gaming establishment to communicate with the person - regardless of their location in the gaming establishment. Messages sent to the person may be personalized and customized. The portable personal service device may also be used to track the location of the person in the gaming establishment. The person may also use the portable personal service device to send messages, for example, to call casino personnel to them or make other personal service requests.



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[Continued on next page]

(54) Title: THREE-DIMENSIONAL GAMES OF CHANCE HAVING MULTIPLE REEL STOPS

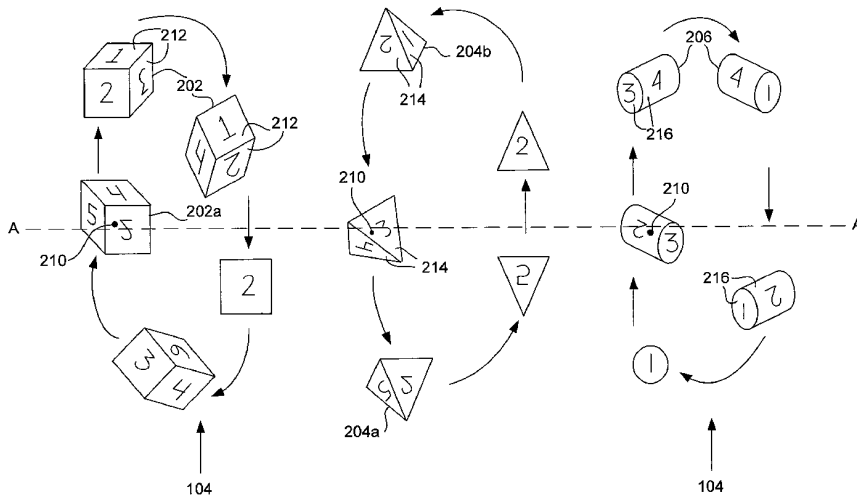


FIG. 2A

(57) Abstract: A gaming machine may have at least one display device capable of displaying 3-D images of a game of chance, and at least one processor to execute instructions to display the 3-D images on the display device, the at least one processor having display video data to display the 3-D images for: at least one first object having a first reel stop associated with a first payout value, the at least one first object moving about a central axis, each of the at least one first object having an individual center point, and at least one second object having a second reel stop, the at least one second object moving about the individual center point, the second reel stop associated with a second payout value, wherein the first payout value and the second payout value determine a total payout associated with an outcome of the game of chance.

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- (71) Applicant (for all designated States except US): IGT  
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) Title: MULTI-USER INPUT SYSTEMS AND PROCESSING TECHNIQUES FOR SERVING MULTIPLE USERS

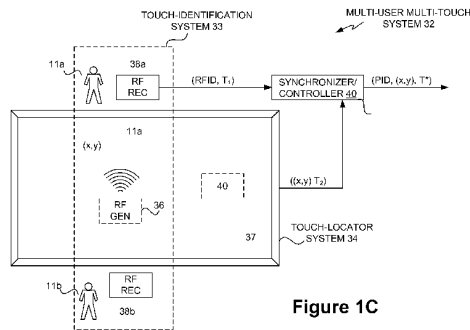


Figure 1C

(57) Abstract: Techniques for providing a common input for multiple users are disclosed. Two separate input detection systems can be provided. One input detection system detects the identity of user while the other detects the location of input for processing. The information provided by the two detection systems is effectively reconciled to determine whether a particular user identified by the first system has provided input in a particular location indicated by the second system. Information can be reconciled, for example, at least partially based on the timing information provided by the two systems (e.g., whether the times indicated by the two systems are within an acceptable range). The first input detection can be provided as a Radio Frequency (RF) system that detects a change in RF energy received by a RF receiver provided in the proximity of a user when the user touches a touchscreen. The second input detection can include an APR (Acoustic Pulse Recognition) or capacitive touchscreen (or multi-touch screen). It will also be appreciated that both input system can be integrated into a single device which can be presented, for example, as multi-user touchscreen. The multi-user touch screen can provide a common input surface to serve numerous applications. For example, a virtual roulette table with a touchscreen surface can be provided for multiple players. The players can interact with the game by touching the touch screen surface provided as a common playing area (e.g., players can place bets by touching various positions of the touchscreen).



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LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,  
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,  
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CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

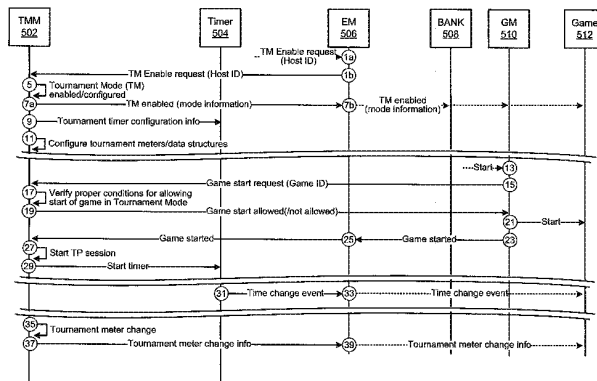
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— with international search report

(54) Title: TOURNAMENT MANAGER FOR USE IN CASINO GAMING SYSTEM

Fig. 5A



(57) Abstract: Various techniques are disclosed for operating a gaming device of a casino gaming network. In at least one embodiment, the gaming device includes a tournament manager and a first meter. In at least one embodiment, the first meter is operable to perform one or more of the following (or combinations thereof): receive a first meter update request for changing meter state information and/or meter data associated with the first meter; determine whether at least one condition exists for denying the first meter update request; and/or prevent execution of the first meter update request in response to a determination that at least one condition exists for denying the first meter update request. Additionally, in at least one embodiment, the gaming device is operable to: receive a request from an entity for initiating start of a first game at the gaming device; obtain approval from the tournament manager for starting the first game at the gaming device; and/or prevent the first game from starting at the gaming device in response to detecting that the tournament manager has not approved start of the first game at the gaming device.

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(54) Title: AUTOMATED TECHNIQUES FOR TABLE GAME STATE TRACKING



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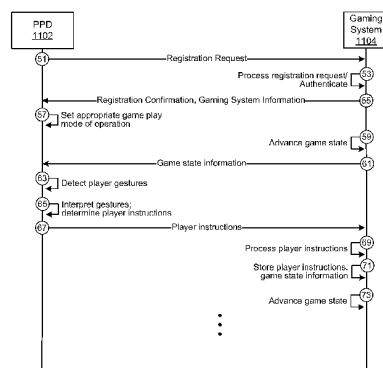


Fig. 11

(57) Abstract: Tracking of gaming activity conducted at a gaming system including a first live casino gaming table. The system may be operable to: control a wager-based game played at the first gaming table; enable a first active game session to be conducted at the first gaming table; automatically detect a first table game state change event for triggering a change of state of the first active game session; and automatically update the state of the first game session using at least a portion of information relating to the first table game state change event. The first table game state change event may include at least of the following events: an event relating to a first player's physical gestures or movements; an event relating to a first casino employee's physical gestures or movements; an event relating to the first player's verbal instructions; an event relating to a casino employee's verbal instructions; and/or an event relating to wagering activity which occurs outside of officially designated wagering zones at the gaming table. The first table game state change event may be analyzed and/or interpreted with respect to selected criteria, and the state of the first game session may be automatically advanced in response to the analysis and/or interpretation of the first table game state change event. Casino chips comprise a wireless transponder.

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- (21) International Application Number: PCT/US2008/082680 (71) Applicant (for all designated States except US): IGT [US/US]; 9295 Prototype Drive, Reno, Nevada 89521 (US).
- (22) International Filing Date: 6 November 2008 (06.11.2008) (72) Inventors; and (75) Inventors/Applicants (for US only): WELLS, William, R. [US/US]; 4450 Rio Encantado Lane, Reno, Nevada 89502 (US). DAVIS, Dwayne, A. [US/US]; 1820 Granite Chief Drive, Reno, Nevada 89521 (US). STOCKDALE, James, W. [US/US]; 232 Boulder Drive, Clio, California 96106 (US). MATTICE, Harold, E. [US/US]; 1271 Bolivia Way, Gardnerville, Nevada 89460 (US). HARRIS, Roger, William [US/US]; 10725 Stone Hollow Drive, Reno, Nevada 89521 (US). HEDRICK, Joseph, Randy [US/US]; 13355 West Saddlebow Drive, Reno, Nevada 89511 (US). WOLF, Bryan, D. [US/US]; 9980 Rising Sun Court, Reno, Nevada 89506 (US). KHAMIS, Michael, P. [AU/US]; 3849 Herons Landing Drive, Reno, Nevada 89502 (US). MYERS, David [US/US]; 4640 Edmonton Drive, Reno, Nevada 89511 (US). NGUYEN, Binh, T. [US/US]; 13210 W. Saddlebow Drive, Reno, Nevada 89511 (US). PALMER, David [US/US]; 680 Cliff
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(54) Title: INTELLIGENT MULTIPLAYER GAMING SYSTEM WITH MULTI-TOUCH DISPLAY

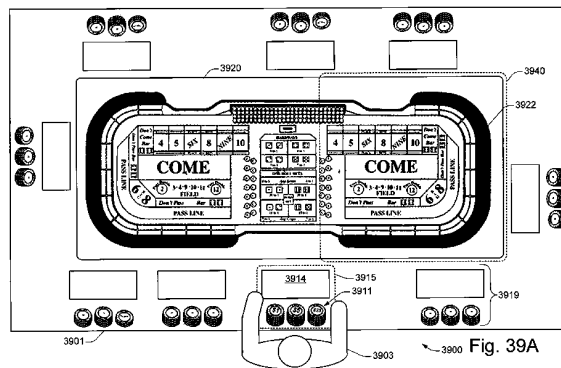


Fig. 39A

(57) Abstract: Various techniques are disclosed for facilitating gesture-based interactions with intelligent multi-player electronic gaming systems which include a multi-user, multi-touch input display surface capable of concurrently supporting contact-based and/or non-contact-based gestures performed by one or more users at or near the input display surface. Gestures may include single touch, multi-touch, and/or near-touch gestures. Some gaming system embodiments may include automated hand tracking functionality for identifying and/or tracking the hands of users interacting with the display surface. The multi-user, multi-touch input display surface may be implemented using a multi-layered display device which includes multiple layered display screens. Various types of MLD-related display techniques disclosed herein may be used for facilitating gesture-based user interactions with a MLD-based multi-user, multi-touch input display surface and/or for facilitating various types of activities conducted at the gaming system, including, for example, various types of game-related and/or wager-related activities. According to various embodiments, users interacting with the multi-user, multi-touch input display surface may convey game play instructions, wagering instructions, and/or other types of instructions to the gaming system by performing various types of gestures at or over the multi-user, multi-touch input display surface. Gesture recognition on gaming tables using multitouch displays.



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- (71) **Applicant (for all designated States except US):** IGT [US/US]; 9295 Prototype Drive, Reno, Nevada 89521-8986 (US).
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(54) Title: DISTRIBUTED SIDE WAGERING METHODS AND SYSTEMS

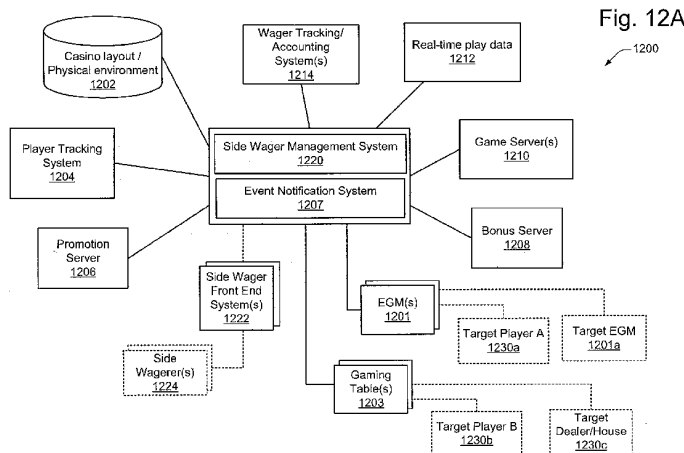


Fig. 12A

(57) **Abstract:** Various techniques are disclosed for facilitating side wagering activities conducted at a casino which includes a casino gaming network. In at least one embodiment, the gaming network includes a plurality of gaming devices, including a first gaming device A. A side wager request may be received for placing a first side wager relating to a first target. In at least one embodiment, the first target may be selected from a group of possible targets which, for example, may include, but are not limited to one or more of the following (or combination thereof) casino players, game tables, electronic gaming devices (EGDs), game themes, game denominations, game paytables, etc. An identity of a first player associated with generating the first side wager request may be determined. A first side wager session may be automatically initiated. In at least one embodiment, the initiation of the first side wager session may include automatically placing the first side wager at the casino gaming network, and associating the placed first side wager with the identified first player.



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