

Nicolas Vargas

Search history

Search PN=(WO2017125624) (Results 1)

1:

2: [SP]: 1. device for controlling the operation of at least one physical gaming machine (1) governed by a programmable electronic control logic (2), the control device comprising a remote server (3) and first telecommunication means (4) to exchange data between the gaming machine (1) and the remote server (3), and the gaming machine (1) comprising a physical viewing display (5) to show an on-site player (6) information on gaming stages, physical selectors means (7a, 7b, 7c, 7d) to allow the on-site player (6) to select available on-site commands with respect to a game session of the game, a selection process module (2a) integrated in the control logic (2), to process the on-site commands selected by the on-site player (6), payment processing means (2b) for activating the gaming machine (1) when an on-site player (6) has paid a price to be able to play the game, status collection means (2d) integrated in the control logic that capture position signals identifying the positions of the images displayed on the physical viewing display (5) at each time payout processing means (2c) for the payment of prizes to the on-site player (6) when he has won at least one game session of the game from the gaming machine (1), the physical viewing display (5), the physical selector means (7a, 7b, 7c, 7d), the payment processing means (2b), the payout processing means (2c) and the first telecommunication means (4) being connected to the control logic (2), an accounts manager module (3b) integrated in the remote server (3), to manage collections and payments in the respective accounts of remote players, and the control device further comprising at least one digital camera (13) for the real-time taking of images connected to image transmission means (8), second telecommunication means (9) to perform interactive wireless communications of data related to the game, between the remote server (3) and at least one remote player terminal (10) of a remote player, and for the real-time transmission of images to the remote user terminal (10), a gaming interface (11) that, at least when it is in communication with the remote server (3), shows in real time on a screen (10a) of the remote player terminal (10) the images transmitted by the image transmission means (8), as well as remote selecting means (7a', 7b', 7c', 7d'), and allows the remote player to select, on the remote player terminal (10), available commands in the stages of the game session of the game and transmit them in real time via the second telecommunication means (9) to the remote server (3), wherein the digital camera (13) is arranged to take images (5') in real time of the physical viewing display (5) of the gaming machine (1), the second telecommunication means (9) are designed to transmit to the remote user terminal (10) images (5') of the physical viewing display (5), the gaming interface (11) is designed to display on the screen (10a) of the remote user terminal (10) images (5') of the physical viewing display (5), the remote selecting means (7a', 7b', 7c', 7d') are analogous to the physical selector means (7a, 7b, 7c, 7d) of the gaming machine (1) and wherein the control device further comprises a control module (12) connected to the control logic (2) of the gaming machine (1) for automatically blocking, when receiving blocking commands from the remote server (3), at least the activation of remote selection commands when the gaming machine (1) is activated by an on-site player (6), and for automatically blocking at least the activation of the on-site selection commands, the payout processing means (2c) and the payment processing means (2b) and for activating at least the selection process module (2a) in remote gaming mode, when the gaming machine (1) is activated by the remote player, the image transmission means (8) being integrated in the control module and selection process means (3a), integrated in the remote server (3), for the real-time processing of commands selected by the remote player in the gaming interface (11) of the remote player terminal (10), and for real-time transmission of the selected commands processed to the control module (12) via the first telecommunication means (4). 2. control device, according to claim 1, wherein the control module (12) comprises first blocking means (12a) for blocking at least the activation of the remote selection commands when the gaming machine (1) is activated by an on-site player (6), second blocking means (12b) for automatically blocking at least the activation of the on-site selection commands, the payout processing means (2c) and the payment processing means (2b), when the gaming machine (1) is activated by the remote player. 3. control device, according to claim 1, wherein the control module (12) further comprises status transmission means (12c) which collect the position signals captured by the status collection means (2d) identifying the positions of the images displayed on the physical viewing display (5), and transmit them to the control server (3c). 4. control device, according to claim 1, wherein the control module (12) is integrated in the control logic (2) of the gaming machine (1). 5. control device, according to claim 1, wherein the control module (12) is an external unit connected to the control logic (2) of the gaming machine (1). 6. control device, according to claim 1, wherein the digital camera (13) is mounted on the gaming machine (1). 7. control device, according to claim 1, wherein the digital camera (13) is mounted in a location distant from the gaming machine (1). 8. control device, according to claim 1, wherein the first telecommunication means (4) comprise a mobile telephone device. 9. control device, according to claim 1, wherein the first telecommunication means (4) are adapted to establish data traffic with the remote server (3) via a fixed telephone line. 10. control device, according to claim 1, wherein at least part of the gaming interface (11) is programmed in the remote player terminal (10). 11. control device, according to claim 1, wherein at least part of the gaming interface (11) is hosted on the remote server (3) such that it is only displayed on the remote player terminal (10) when connected to the remote server (3). 12. control device, according to claim 1, wherein the control module (12) comprises a recognition unit programmed to issue a blocking signal which prevents activation of the gaming machine (1) from the remote player terminal (10) when the digital camera (13) does not capture images (5') of the physical viewing display (5) of the gaming machine (1). 13. control device, according to claim 1, wherein the remote server (3) comprises a control server (3c) and a video server (3d), the control server (3c) is designed to control the functionalities of the system, to store data transmitted between the gaming machine (1) and the remote server (3), images (5') taken by the digital camera (13), data transmitted between the remote server (3) and the remote player terminal (10), and to route the images (5') to the respective remote player terminals (10) from which the remote players are playing on different gaming machines (1), the video server (3d) is designed to collect the images (5') captured by each digital camera (13) and transmit them to respective remote player terminals (10) indicated by the control server (3c). 14. control device, according to claim 1, wherein the digital camera (13) is a digital camera with high video resolution. 15. gaming installation comprising at least one gaming machine (1) governed by a programmable electronic control logic (2), which comprises a remote server (3) and first telecommunication means (4) to transmit data between the gaming machine (1) and the remote server (3), the gaming machine (1) comprising a physical viewing display (5) to show an on-site player (6) information on gaming stages, physical selector means (7a, 7b, 7c, 7d) to allow the on-site player (6) to select available on-site commands with respect to a game session of the game, a selection process module (2a) integrated in the control logic (2), to process the on-site commands selected by the on-site player (6), payment processing means (2b) for activating the gaming machine (1) when an on-site player (6) has paid a price to be able to play the game, status collection means (2d) integrated in the control logic that capture position signals identifying the positions of the images displayed on the physical viewing display (5) at each time payout processing means (2c) for the payment of prizes to the on-site player (6) when he has won at least one game session of the game from the gaming machine (1), the physical viewing display (5), the physical selector means (7a, 7b, 7c, 7d), the payment processing means (2b), the payout processing means (2c) and the first telecommunication means (4) being connected to the control logic (2), an accounts manager module (3b) integrated in the remote server (3), to manage collections and payments in the respective accounts of remote players, and the control device further comprising at least one digital camera (13) for the real-time taking of images connected to image transmission means (8), second telecommunication means (9) to perform interactive wireless communications of data related to the game, between the remote server (3) and at least one remote player terminal (10) of a remote player, and for the real-time transmission of images to the remote user terminal (10), a gaming interface (11) that, at least when it is in communication with the remote server (3), shows in real time on a screen (10a) of the remote player terminal (10) the images transmitted by the image transmission means (8), as well as remote selecting means (7a', 7b', 7c', 7d'), and allows the remote player to select, on the remote player terminal (10), available commands in the stages of the game session of the game and transmit them in real time via the second telecommunication means (9) to the remote server (3), wherein the digital camera (13) is arranged to take images (5') in real time of the physical viewing display (5) of the gaming machine (1), the second telecommunication means (9) are designed to transmit to the remote user terminal (10) images (5') of the physical viewing display (5), the gaming interface (11) is designed to display on the screen (10a) of the remote user terminal (10) images (5') of the physical viewing display (5), the remote selecting means (7a', 7b', 7c', 7d') are analogous to the physical selector means (7a, 7b, 7c, 7d) of the gaming machine (1) and wherein the control device further comprises a control module (12) connected to the control logic (2) of the gaming machine (1) for automatically blocking, when receiving blocking commands from the remote server (3), at least the activation of remote selection commands when the gaming machine (1) is activated by an on-site player (6), and for automatically blocking at least the activation of the on-site selection commands, the payout processing means (2c) and the payment processing means (2b) and for activating at least the selection process module (2a) in remote gaming mode, when the gaming machine (1) is activated by the remote player, the image transmission means (8) being integrated in the control module and selection process means (3a), integrated in the remote server (3), for the real-time processing of commands selected by the remote player in the gaming interface (11) of the remote player terminal (10).

Search 3: [SP]: 1. device for controlling the operation of at least one physical gaming machine (1) governed by a programmable electronic control logic (2), the control device comprising a remote server (3) and first telecommunication means (4) to exchange data between the gaming machine (1) and the remote server (3), and the gaming machine (1) comprising a physical viewing display (5) to show an on-site player (6) information on gaming stages, physical selectors means (7a, 7b, 7c, 7d) to allow the on-site player (6) to select available on-site commands with respect to a game session of the game, a selection process module (2a) integrated in the control logic (2), to process the on-site commands selected by the on-site player (6), payment processing means (2b) for activating the gaming machine (1) when an on-site player (6) has paid a price to be able to play the game, status collection means (2d) integrated in the control logic that capture position signals identifying the positions of the images displayed on the physical viewing display (5) at each time payout processing means (2c) for the payment of prizes to the on-site player (6) when he has won at least one game session of the game from the gaming machine (1), the physical viewing display (5), the physical selector means (7a, 7b, 7c, 7d), the payment processing means (2b), the payout processing means (2c) and the first telecommunication means (4) being connected to the control logic (2), an accounts manager module (3b) integrated in the remote server (3), to manage collections and payments in the respective accounts of remote players, and the control device further comprising at least one digital camera (13) for the real-time taking of images connected to image transmission means (8), second telecommunication means (9) to perform interactive wireless communications of data related to the game, between the remote server (3) and at least one remote player terminal (10) of a remote player, and for the real-time transmission of images to the remote user terminal (10), a gaming interface (11) that, at least when it is in communication with the remote server (3), shows in real time on a screen (10a) of the remote player terminal (10) the images transmitted by the image transmission means (8), as well as remote selecting means (7a', 7b', 7c', 7d'), and allows the remote player to select, on the remote player terminal (10), available commands in the stages of the game session of the game and transmit them in real time via the second telecommunication means (9) to the remote server (3), wherein the digital camera (13) is arranged to take images (5') in real time of the physical viewing display (5) of the gaming machine (1), the second telecommunication means (9) are designed to transmit to the remote user terminal (10) images (5') of the physical viewing display (5), the gaming interface (11) is designed to display on the screen (10a) of the remote user terminal (10) images (5') of the physical viewing display (5), the remote selecting means (7a', 7b', 7c', 7d') are analogous to the physical selector means (7a, 7b, 7c, 7d) of the gaming machine (1) and wherein the control device further comprises a control module (12) connected to the control logic (2) of the gaming machine (1) for automatically blocking, when receiving blocking commands from the remote server (3), at least the activation of remote selection commands when the gaming machine (1) is activated by an on-site player (6), and for automatically blocking at least the activation of the on-site selection commands, the payout processing means (2c) and the payment processing means (2b) and for activating at least the selection process module (2a) in remote gaming mode, when the gaming machine (1) is activated by the remote player, the image transmission means (8) being integrated in the control module and selection process means (3a), integrated in the remote server (3), for the real-time processing of commands selected by the remote player in the gaming interface (11) of the remote player terminal (10).

(10), and for real-time transmission of the selected commands processed to the control module (12) via the first telecommunication means (4).2. control device, according to claim 1, wherein the control module (12) comprises first blocking means (12a) for blocking at least the activation of the remote selection commands when the gaming machine (1) is activated by an on-site player (6)second blocking means (12b) for automatically blocking at least the activation of the on-site selection commands, the payout processing means (2c) and the payment processing means (2b), when the gaming machine (1) is activated by the remote player.3. control device, according to claim 1, wherein the control module (12) further comprises status transmission means (12c) which collect the position signals captured by the status collection means (2d) identifying the positions of the images displayed on the physical viewing display (5), and transmit them to the control server (3c).4. control device, according to claim 1, wherein the control module (12) is integrated in the control logic (2) of the gaming machine (1).5. control device, according to claim 1, wherein the control module (12) is an external unit connected to the control logic (2) of the gaming machine (1).6. control device, according to claim 1, wherein the digital camera (13) is mounted on the gaming machine (1).7. control device, according to claim 1, wherein the digital camera (13) is mounted in a location distant from the gaming machine (1).8. control device, according to claim 1, wherein the first telecommunication means (4) comprise a mobile telephone device.9. control device, according to claim 1, wherein the first telecommunication means (4) are adapted to establish data traffic with the remote server (3) via a fixed telephone line.10. control device, according to claim 1, wherein at least part of the gaming interface (11) is programmed in the remote player terminal (10).11. control device, according to claim 1, wherein at least part of the gaming interface (11) is hosted on the remote server (3) such that it is only displayed on the remote player terminal (10) when connected to the remote server (3).12. control device, according to claim 1, wherein the control module (12) comprises a recognition unit programmed to issue a blocking signal which prevents activation of the gaming machine (1) from the remote player terminal (10) when the digital camera (13) does not capture images (5') of the physical viewing display (5) of the gaming machine (1).13. control device, according to claim 1, wherein the remote server (3) comprises a control server (3c) and a video server (3d)the control server (3c) is designed to control the functionalities of the system, to store data transmitted between the gaming machine (1) and the remote server (3), images (5') taken by the digital camera (13), data transmitted between the remote server (3) and the remote player terminal (10), and to route the images (5') to the respective remote player terminals (10) from which the remote players are playing on different gaming machines (1)the video server (3d) is designed to collect the images (5') captured by each digital camera (13) and transmit them to respective remote player terminals (10) indicated by the control server (3c).14. control device, according to claim 1, wherein the digital camera (13) is a digital camera with high video resolution.15. gaming installation comprising at least one gaming machine (1) governed by a programmable electronic control logic (2), which comprises a remote server (3) and first telecommunication means (4) to transmit data between the gaming machine (1) and the remote server (3), the gaming machine (1) comprising a physical viewing display (5) to show an on-site player (6) information on gaming stages,physical selector means (7a, 7b, 7c, 7d) to allow the on-sit (Results 0)

Search 4: [SP]: device for controlling the operation of at least one physical gaming machine and gaming installation comprising the device the invention relates to a device for controlling the operation of at least one physical gaming machine (1), which comprises at least one digital camera (13) for taking images (5') of a physical viewing display (5) of the gaming machine (1), and telecommunication means (4, 9) for real-time transmission of the images (5') to a remote user terminal (10) comprising a gaming interface (11) for the live and continuous display of the images (5') on a screen (10a). the device also comprises remote selecting means (7a', 7b', 7c', 7d'), analogous to physical selector means (7a, 7b, 7c, 7d) of the gaming machine (1), which allow a remote player to select remote commands relating to the game and which are transmitted by means of a remote server (3) to a control module (12) connected to a control logic (2) of the gaming machine (1) to automatically block the remote commands when the gaming machine (1) is activated by an on-site player (6), and to block in the gaming machine, on-site selection commands, payout processing means (2c) and payment processing means (2b) and activate at least the selection process module (2a) in remote-gaming mode, when the gaming machine (1) is activated by the remote player. (Results 0)

Search PN=(US6080063) (Results 1)
5:

Search 6: [SP]: what is claimed is:1. in a computer system with a user interface, a method for simulating interaction with a live event, the live event being characterized by interaction among real participants in real space, comprising:gathering event input from at least one monitor carried by a real participant, the monitor providing position information about the real participantgenerating a display simulating said live event in said computer system, wherein said display comprises one or more entities corresponding to one or more real participants in said live event, further including at least one of providing simulated entity on the display and of generating said display as if it were a perspective of the live event by a simulated entityreceiving user input from said user interface and modifying said display in response to said event input and to said user input, and according to one or more rules of engagement, which specify an interaction on the display involving said simulated entity and said one or more of entities corresponding to one or more real participants.2. the method of claim 1 including controlling a position in said display of said simulated entity in response to said user inputs.3. the method of claim 1 including displaying more than one simulated entity, and said one or more rules of engagement specify how said simulated entities interact with each other.4. the method of claim 1 including modifying said plurality of rules of engagement according to said user input.5. the method of claim 1 further including periodically synchronizing said display with said live event, such that said event input gathered at a first time is reflected in said display at a second time, wherein a time interval between said first time and said second time is such that the display appears to be substantially simultaneous with said live event to a user of said computer system.6. the method of claim 1 further including periodically synchronizing said display with a broadcast of said event input gathered from said live event, such that said event input, which is broadcast at a first time, is reflected in said display at a second time, wherein a time interval between said first time and said second time is such that the display appears to be substantially simultaneous with said broadcast of said event input to a user of said computer system.7. the method of claim 1 further including periodically synchronizing said display with a playback of a recording of said event input gathered from said live event, such that said event input, which is played back from a recording at a first time, is reflected in said display at a second time, wherein a time interval between said first time and said second time is such that the display appears to be substantially simultaneous with said playback to a user of said computer system.8. the method of claim 1 further including the gathering scoring information from said computer systemcommunicating said scoring information to a central data collection site andreceiving and assembling scoring information from at least one other computer system at said central data collection site.9. the method of claim 1 wherein said event input further includes environmental conditions from said live event that effect performance of said plurality of participants in said live event.10. the method of claim 9 wherein said environmental conditions include wind velocity.11. the method of claim 9 wherein said environmental conditions include road slickness.12. the method of claim 1 wherein said computer system is located remotely from said live event, and said gathering of said information further comprises:gathering event input from at least one sensor located at said live eventtransmitting said event input through a communication channel andreceiving said event input at said computer system.13. the method of claim 12 wherein said communication channel comprises a computer network.14. the method of claim 12 wherein said communication channel comprises broadcast television.15. the method of claim 12 wherein said communication channel comprises a cable television network.16. the method of claim 12 wherein said monitor includes a gps.17. the method of claim 12 wherein said monitor includes a speedometer.18. in a computer system with a user interface, a method for simulating interaction with a live event, the live event being characterized by interaction among real participants in real space, comprising:gathering event input from at least one sensor located in real space at said live event, the sensor providing information about the location in real space of one or more real participants in the live eventgenerating a display simulating said live event in said computer system, wherein said display comprises one or more entities corresponding to one or more real participants in said live event, further including at least one of providing simulated entity on the display and of generating said display as if it were a perspective of the live event by a simulated entityreceiving user input from said user interface and modifying said display in response to said event input and to said user input, and according to one or more rules of engagement, which specify an interaction on the display involving said simulated entity and said one or more of entities corresponding to one or more real participants.19. in a computer system with a user interface, a method for simulating interaction with a live event, the live event being characterized by interaction among real participants in real space, comprising:gathering event input from at least one monitor carried by a real participant, the monitor providing speed information about the real participantgenerating a display simulating said live event in said computer system, wherein said display comprises one or more entities corresponding to one or more real participants in said live event, further including at least one of providing simulated entity on the display and of generating said display as if it were a perspective of the live event by a simulated entityreceiving user input from said user interface and modifying said display in response to said event input and to said user input, and according to one or more rules of engagement, which specify an interaction on the display involving said simulated entity and said one or more of entities corresponding to one or more real participants. (Results 0)

Search 7: [SP]: simulated real time game play with live event a game play system allows remote players to participate in a concurrent simulation of a live event as the live event is occurring. the system gathers input from sensors located at the live event, preprocesses this input, and transfers it to a computer system, which uses this input to create a concurrent simulation of the live event. a remote game player can then interact with the concurrent simulation by providing input to the concurrent simulation through a user interface.this system combines the excitement of a highly interactive video game with the drama and publicity surrounding a live event. the live event can thereby set the standard of performance for the concurrent simulation. remote game players may additionally compete against each other to determine an overall global winner amongst the remote game players in the live event. (Results 320)

Search 7 and game and camera (Results 128)
8:

Search 8 and control and server (Results 92)
9:

Search 9 and pd<20160122 (Results 86)
10:

Search 10 and (display or screen) (Results 85)

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11:
Search 11 and block* (Results 70)
12:
Search 12 and wireless (Results 63)
13:
Search 13 and remote (Results 56)
14:
Search 14 and pay* (Results 36)
15:
Search 15 and transm* (Results 36)
16:
Search 16 and command* (Results 31)
17:
Search 17 and (block* w15 command*) (Results 3)
18:
Search 17 and blocking (Results 12)
19:
Search 19 and real time (Results 12)
20:

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Title: METHOD AND SYSTEM FOR DETERMINING USER INPUT BASED ON GESTURE

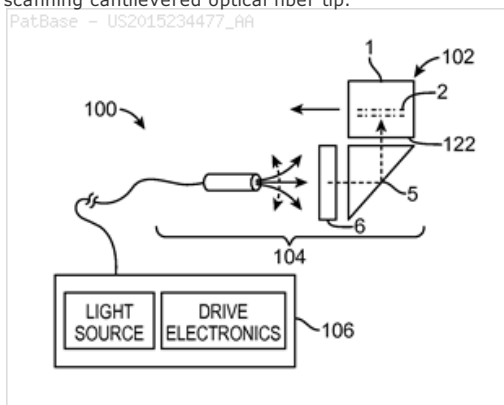
Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213
A63F13/428 G01B11/30 G02B27/01 G02B27/42 G02B6/10 G02B6/34
G06F17/30 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/0481
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G06K9/62 G06Q30/06 G06T19/00 G06T7/00 G06T7/60 G09G5/00
G16H40/20 H04B10/25 (Advanced/Invention)

G16H40/20 H04B5/25 (Advanced/Invention)
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 G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20
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US: 382/103

US: 382/103



Family:

Publication number	Publication date	Application number	Application date
US2015234477 AA	20150820	US20150704858	20150505
US10228242 BB	20190312	US20150704858	20150505

Priority:

US20130845907P	20130712	US20140950001P	20140307	US20140012273P	20140614
US20140331218	20140714	US20150641376	20150307	US20150696347	20150424
US20150704858	20150505				

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

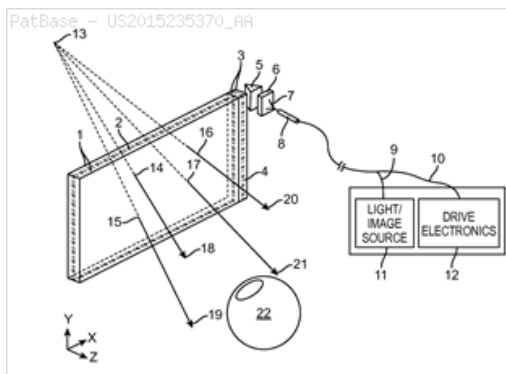
Agent(s): VISTA IP LAW GROUP LLP

Title: METHOD AND SYSTEM FOR IDENTIFYING A USER LOCATION

Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A63F13/00 A63F13/213 A63F13/428
G01B11/30 G02B27/01 G02B27/42 G02B6/10 G02B6/34 G06F17/30
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G01B11/303 G02B6/10 G02B6/34 G02B27/017 G02B27/42
G02B27/4205 G02B27/4227 G06F3/011 G06F3/013 G06F3/0304
G06F3/04845 G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214
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G06T7/60 G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004
G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20
H04B10/2504
US: 1/1 382/103



Family:

Publication number	Publication date	Application number	Application date
US2015235370 AA	20150820	US20150704826	20150505
US9952042 BB	20180424	US20150704826	20150505

Priority:

US20130845907P 20130712	US20140950001P 20140307	US20140012273P 20140614
US20140331218 20140714	US20150641376 20150307	US20150696347 20150424
US20150704826 20150505		

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

Agent(s): VISTA IP LAW GROUP LLP

3) Family number: 63579036 (US2015235441A)

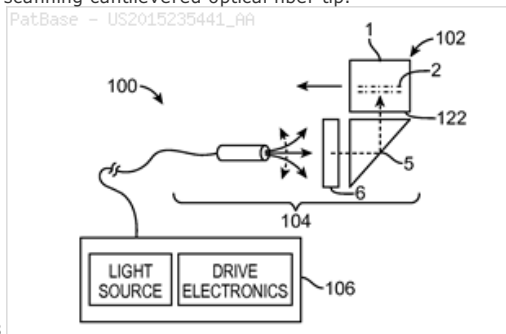
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Title: METHOD AND SYSTEM FOR RENDERING VIRTUAL CONTENT

Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213
A63F13/428 G01B11/30 G02B27/01 G02B27/22 G02B27/42
G02B6/10 G02B6/34 G06F16/783 G06F19/00 G06F3/00 G06F3/01
G06F3/03 G06F3/0481 G06F3/0484 G06F3/0485 G06F3/0487
G06F3/0488 G06K9/00 G06K9/62 G06Q30/06 G06T19/00 G06T7/00
G06T7/60 G16H40/00 G16H40/20 H04B10/25 (Advanced/Invention)
CPC: G16H40/00 G02B27/0179 G06T2207/10148 A61B3/14
A61B3/113 A61B3/165 A61B5/0476 A61B5/14532 A61B5/14555
A61B5/6803 A61B3/12 A61B3/08 A61B3/0008 A61B3/1216
A61B3/1015 A61B3/1035 A61B3/085 A61B3/028 A61B3/066
A61B3/102 A61B3/022 A61B3/13 A61B3/063 A61B3/024 A61B3/10
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G06K9/00355 G06K9/00389 G06K9/00671 G06Q30/0643 G06F16/7837 A63F13/00 G01B11/303 G02B6/10 G02B6/34
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G06F3/0487 G06F3/04883 G06K9/00214 G06K9/00664 G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215 G06T7/60
G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004 G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20
H04B10/2504
US: 345/633



Family:

Publication number	Publication date	Application number	Application date
US2015235441 AA	20150820	US20150704765	20150505
US10408613 BB	20190910	US20150704765	20150505

Priority:

US20130845907P 20130712	US20140950001P 20140307	US20140012273P 20140614
US20140331218 20140714	US20150641376 20150307	US20150696347 20150424
US20150704765 20150505		

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

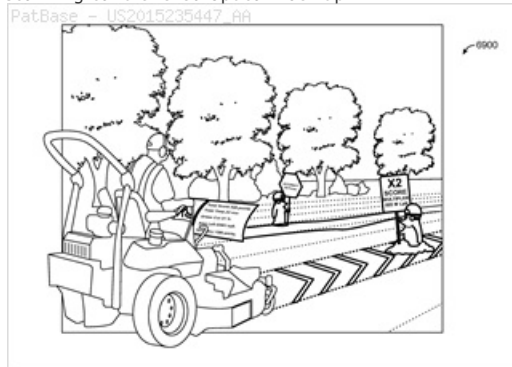
Agent(s): VISTA IP LAW GROUP LLP

Title: METHOD AND SYSTEM FOR GENERATING MAP DATA FROM AN IMAGE

Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213 A63F13/428 G01B11/30 G02B27/01 G02B27/22 G02B27/42 G02B6/10 G02B6/34 G06F16/783 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/0481 G06F3/0484 G06F3/0485 G06F3/0487 G06F3/0488 G06K9/00 G06K9/62 G06Q30/06 G06T19/00 G06T7/00 G06T7/60 G16H40/20 H04B10/25 (Advanced/Invention)
CPC: G16H40/00 A61B34/10 A61B2034/101 A63F13/213 A63F13/428 G02B27/0101 G02B27/0172 G02B2027/0105 G02B2027/0127 G02B2027/014 G02B2027/0178 G02B2027/0185 G02B2027/0187 G06F3/005 G06F3/017 G06F3/04815 G06F3/04842 G06K9/00355 G06K9/00389 G06K9/00671 G06Q30/0643 G06F16/7837 A63F13/00 G01B11/303 G02B6/10 G02B6/34 G02B27/017 G02B27/42 G02B27/4205 G02B27/4227 G06F3/011 G06F3/013 G06F3/0304 G06F3/04845 G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214 G06K9/00664 G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215 G06T7/60 G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004 G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20 H04B10/2504
US: 345/633



Family:

Publication number	Publication date	Application number	Application date
US2015235447 AA	20150820	US20150704844	20150505
US10295338 BB	20190521	US20150704844	20150505

Priority:

US20130845907P 20130712 US20140950001P 20140307 US20140012273P 20140614
 US20140331218 20140714 US20150641376 20150307 US20150696347 20150424
 US20150704844 20150505

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

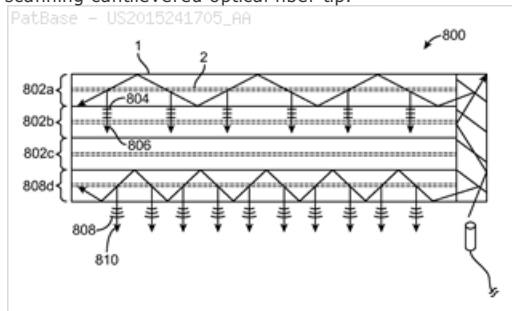
Agent(s): VISTA IP LAW GROUP LLP

Title: PLANAR WAVEGUIDE APPARATUS HAVING A PLURALITY OF DIFFRACTIVE OPTICAL ELEMENTS

Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A63F13/00 A63F13/213 A63F13/428 G01B11/30 G02B27/01 G02B27/02 G02B27/42 G02B6/10 G02B6/34 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/0481 G06F3/0484 G06F3/0485 G06F3/0487 G06F3/0488 G06K9/00 G06K9/62 G06Q30/06 G06T19/00 G06T7/60 H04B10/25 (Advanced/Invention); A61B34/10 (Advanced/Non-invention)
CPC: G16H40/00 A61B34/10 A61B2034/101 A63F13/213 A63F13/428 G02B27/0101 G02B27/0172 G02B2027/0105 G02B2027/0127 G02B2027/014 G02B2027/0178 G02B2027/0185 G02B2027/0187 G06F3/005 G06F3/017 G06F3/04815 G06F3/04842 G06K9/00355 G06K9/00389 G06K9/00671 G06Q30/0643 G06F16/7837 A63F13/00 G01B11/303 G02B6/10 G02B6/34 G02B27/017 G02B27/42 G02B27/4205 G02B27/4227 G06F3/011 G06F3/013 G06F3/0304 G06F3/04845 G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214 G06K9/00664 G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215 G06T7/60 G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004 G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20 H04B10/2504
US: 1/1 385/37



Family:

Publication number	Publication date	Application number	Application date
US2015241705 AA	20150827	US20150707311	20150508
US9857170 BB	20180102	US20150707311	20150508

Priority:

US20130845907P 20130712 US20140950001P 20140307 US20140012273P 20140614

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

Agent(s): VISTA IP LAW GROUP LLP

6) Family number: 63579091 (US2015243100A)

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Title: METHOD AND SYSTEM FOR DETERMINING USER INPUT BASED ON TOTEM

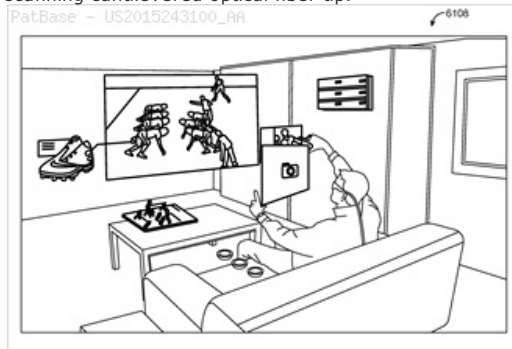
Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213
A63F13/428 G01B11/30 G02B27/01 G02B27/42 G02B6/10 G02B6/34
G06F16/783 G06F17/30 G06F19/00 G06F3/00 G06F3/01 G06F3/03
G06F3/0481 G06F3/0484 G06F3/0485 G06F3/0487 G06F3/0488
G06K9/00 G06K9/62 G06Q30/06 G06T19/00 G06T7/60 G16H40/00
G16H40/20 H04B10/25 (Advanced/Invention)

CPC: A61B34/10 A61B2034/101 A63F13/213 A63F13/428
G02B27/0101 G02B27/0172 G02B2027/0105 G02B2027/0127
G02B2027/014 G02B2027/0178 G02B2027/0185 G02B2027/0187
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G01B11/303 G02B6/10 G02B6/34 G02B27/017 G02B27/42
G02B27/4205 G02B27/4227 G06F3/011 G06F3/013 G06F3/0304
G06F3/04845 G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214
G06K9/00664 G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215
G06T7/60 G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004
G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/00 G16H40/20 H04B10/2504 G02B27/0179 G06T2207/10148
A61B3/14 A61B3/113 A61B3/165 A61B5/0476 A61B5/14532 A61B5/14555 A61B5/6803 A61B3/12 A61B3/08 A61B3/0008
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A61B5/0066 A61B5/0077 G02B2027/0138 G06T2207/10024 G06T2207/10152 G06T2207/30041

US: 345/633



Family:

Publication number	Publication date	Application number	Application date
US2015243100 AA	20150827	US20150706889	20150507
US10473459 BB	20191112	US20150706889	20150507

Priority:

US20130845907P 20130712 US20140950001P 20140307 US20140012273P 20140614
US20140331218 20140714 US20150641376 20150307 US20150696347 20150424
US20150706889 20150507

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T

Inventor(s): WATSON MATHEW D

Agent(s): VISTA IP LAW GROUP LLP

7) Family number: 63579099 (US2015247723A)

© PatBase

Title: METHOD AND SYSTEM FOR OBTAINING TEXTURE DATA OF A SPACE

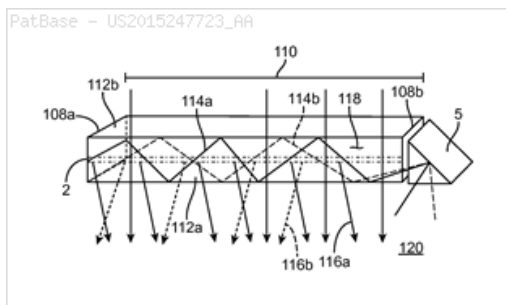
Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213
A63F13/428 G01B11/30 G02B27/01 G02B27/42 G02B6/10 G02B6/34
G06F16/783 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/0481
G06F3/0484 G06F3/0485 G06F3/0487 G06F3/0488 G06K9/00
G06K9/62 G06Q30/06 G06T19/00 G06T7/60 G16H40/00
H04B10/25 (Advanced/Invention)

CPC: G16H40/00 A61B34/10 A61B2034/101 A63F13/213 A63F13/428
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G01B11/303 G02B6/10 G02B6/34 G02B27/017 G02B27/42

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G06F3/04845 G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214
G06K9/00664 G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215
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G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20
H04B10/2504
US: 356/600



Family:

Publication number	Publication date	Application number	Application date
US2015247723 AA	20150903	US20150707745	20150508
US10352693 BB	20190716	US20150707745	20150508

Priority:

US20130845907P 20130712	US20140950001P 20140307	US20140012273P 20140614
US20140331218 20140714	US20150641376 20150307	US20150696347 20150424
US20150707745 20150508		

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

Agent(s): VISTA IP LAW GROUP LLP

8) Family number: 63579109 (US2015248170A)

© PatBase

Title: METHOD AND SYSTEM FOR GENERATING A VIRTUAL USER INTERFACE RELATED TO A TOTEM

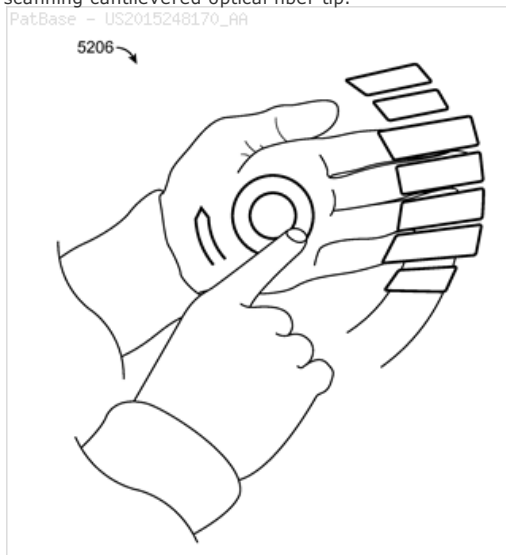
Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): A61B34/10 A63F13/00 A63F13/213
A63F13/428 G01B11/30 G02B27/01 G02B27/42 G02B6/10 G02B6/34
G06F17/30 G06F19/00 G06F3/00 G06F3/01 G06F3/03 G06F3/0481
G06F3/0484 G06F3/0485 G06F3/0487 G06F3/0488 G06K9/00
G06K9/62 G06Q30/06 G06T19/00 G06T7/60 G16H40/20
H04B10/25 (Advanced/Invention)

CPC: G06F17/3079 G16H40/00 A61B34/10 A61B2034/101
A63F13/213 A63F13/428 G02B27/0101 G02B27/0172
G02B2027/0105 G02B2027/0127 G02B2027/014 G02B2027/0178
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G06K9/00671 G06Q30/0643 G06F16/7837 A63F13/00 G01B11/303
G02B6/10 G02B6/34 G02B27/017 G02B27/42 G02B27/4205
G02B27/4227 G06F3/011 G06F3/013 G06F3/0304 G06F3/04845
G06F3/0485 G06F3/0487 G06F3/04883 G06K9/00214 G06K9/00664
G06K9/00711 G06K9/6201 G06K9/6212 G06K9/6215 G06T7/60
G06T19/006 G06T2200/04 G06T2200/24 G06T2207/10004
G06T2207/30196 G06T2210/41 G06T2219/024 G16H40/20
H04B10/2504

US: 345/633



Family:

Publication number	Publication date	Application number	Application date
US2015248170 AA	20150903	US20150707253	20150508
US10288419 BB	20190514	US20150707253	20150508

Priority:

US20130845907P 20130712	US20140950001P 20140307	US20140012273P 20140614
US20140331218 20140714	US20150641376 20150307	US20150696347 20150424
US20150707253 20150508		

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T ; WATSON MATHEW D

Agent(s): VISTA IP LAW GROUP LLP

Title: METHOD AND SYSTEM FOR MODIFYING **DISPLAY** OF A SPORTING EVENT USING AN AUGMENTED REALITY SYSTEM

Abstract: A waveguide apparatus includes a planar waveguide and at least one optical diffraction element (DOE) that provides a plurality of optical paths between an exterior and interior of the planar waveguide. A phase profile of the DOE may combine a linear diffraction grating with a circular lens, to shape a wave front and produce beams with desired focus. Waveguide apparatus may be assembled to create multiple focal planes. The DOE may have a low diffraction efficiency, and planar waveguides may be transparent when viewed normally, allowing passage of light from an ambient environment (e.g., real world) useful in AR systems. Light may be returned for temporally sequentially passes through the planar waveguide. The DOE(s) may be fixed or may have dynamically adjustable characteristics. An optical coupler system may couple images to the waveguide apparatus from a projector, for instance a biaxially scanning cantilevered optical fiber tip.

Classifications:

International (IPC 8-9): G02B27/01 G02B6/34 G06F3/01

G06T19/00 (Advanced/Invention)

CPC: A61B34/10 A61B2034/101 A63F13/213 A63F13/428

G02B27/0101 G02B27/0172 G02B2027/0105 G02B2027/0127

G02B2027/014 G02B2027/0178 G02B2027/0185 G02B2027/0187

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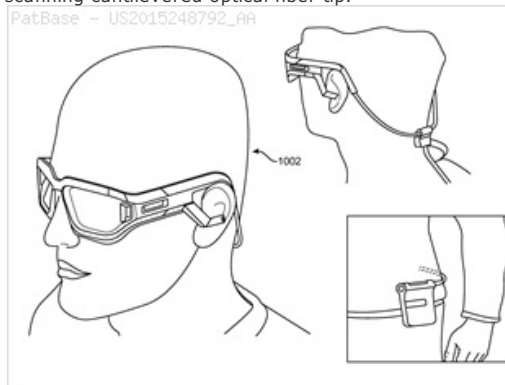
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G16H40/20 H04B10/2504

US: 345/633



Family:

Publication number	Publication date	Application number	Application date
US2015248792 AA	20150903	US20150707425	20150508

Priority:

US20130845907P	20130712	US20140950001P	20140307	US20140012273P	20140614
US20140331218	20140714	US20150641376	20150307	US20150696347	20150424
US20150707425	20150508				

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): CITIBANK NA ; JP MORGAN CHASE BANK NA

Inventor(s): (std): WATSON MATTHEW D ; ABOVITZ RONY ; SCHOWENGERDT BRIAN T

Title: TRAJECTORY-BASED 3-D **GAMES** OF CHANCE FOR VIDEO GAMING MACHINES

Abstract: Trajectory-based **games** of chance are described that may be implemented on a video gaming machine. In a trajectory-based **game** of chance, a trajectory of a **game** object may be generated in a 3-D gaming environment. A wager may be made on an aspect of the **game** object's trajectory in the gaming environment such as a termination location for the trajectory of the **game** object. The aspect of the **game** object's trajectory may occur according to a known probability. Hence, an award for the trajectory-based **game** of chance may be proportional to the probability of the aspect of the **game** object's trajectory occurring.

Classifications:

International (IPC 8-9): A63F13/00 A63F13/10 A63F13/40

A63F13/573 A63F9/24 G06T13/20 G07F17/32

G07F17/38 (Advanced/Invention);

A63F13/00 A63F13/10 (Core/Invention)

International (IPC 1-7): A63F13/00 G06F17/00

CPC: A63F13/00 A63F13/10 A63F2300/64 A63F2300/643 G07F17/38

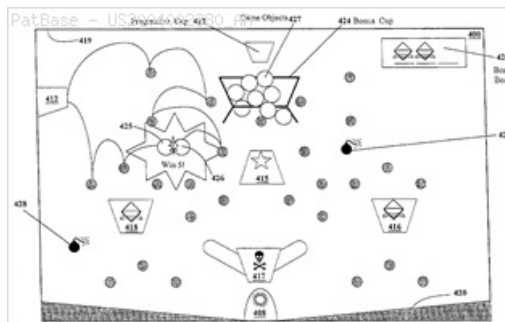
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European: A63F13/00 A63F13/10 K63F300/64 K63F300/64C

US: 1/1 463/16 463/16P 463/17 463/2 463/32 463/32P 463/33

463/34



Family:

Publication number	Publication date	Application number	Application date
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US2011165931 AA	20110707	US20110047721	20110314
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US2014038677 AA	20140206	US20130045442	20131003
US2015187163 AA	20150702	US20150645110	20150311

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US9358453 BB	20160607	US20150645110	20150311
US9613496 BB	20170404	US20160170486	20160601
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WO04002591 A3	20040325	WO2003US18028	20030605

Priority:

US20020187343 20020627 GB20040027512 20030605 WO2003US18028 20030605
US20110047717 20110314 US20110047720 20110314 US20110047721 20110314
US20130045442 20131003 US20130045477 20131003 US20150645110 20150311
US20160170486 20160601

Probable Assignee: IGT

Assignee(s): (std): BEAULIEU NICOLE M ; BENBRAHIM JAMAL ; BROSNAN WILLIAM R ; ESCALERA ANTHONY R ; IGT RENO NEV ; KRYUCHKOV ALEXEY ; LEMAY STEVEN G ; MINCEY JEFF ; NELSON DWAYNE R ; ROGERS ANDY ; SCHLOTTMANN GREG A

Assignee(s): IGT

Inventor(s): (std): WILLIAM R BROSNAN ; STEVEN G LEMAY ; JEFF MINCEY ; ANDY ROGERS ; JAMAL BENBRAHIM ; ANTHONY R ESCALERA ; ALEXEY KRYUCHKOV ; BROSNAN JR WILLIAM R ; KRYUCHKOV ALEXEY ; NICOLE M BEAULIEU ; GREG A SCHLOTTMANN ; DWAYNE R NELSON ; NELSON DWAYNE RILEY ; BROSNAN WILLIAM R ; BEAULIEU NICOLE M ; BENBRAHIM JAMAL ; ESCALERA ANTHONY R ; KRYUCHKOV ALEXEY ; LEMAY STEVEN G ; MINCEY JEFF ; NELSON DWAYNE R ; RODGERS ANDY ; SCHLOTTMANN GREG A ; ROGERS ANDY ; BEAULIEU NICOLE ; NELSON DWAYNE

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Agent(s): PHILLIPS ORMONDE FITZPATRICK ; WEAVER AUSTIN VILLENEUVE AND SAMPSON LLP ; NEAL GERBER AND EISENBERG ; NEAL GERBER AND EISENBERG LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

11) Family number: 23169316 (US2003177187A)

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Title: COMPUTING GRID FOR MASSIVELY MULTI-PLAYER ONLINE **GAMES** AND OTHER MULTI-USER IMMERSIVE PERSISTENT-STATE AND SESSION-BASED APPLICATIONS

Abstract: A method of managing a collaborative process includes defining a plurality of locales on a plurality of **servers**, creating a plurality of objects corresponding to players in the plurality of locales, and mediating object state of the objects between the locales in a seamless manner so that the locales form a seamless world.

Classifications:

International (ipc 8-9): A63F13/10 A63F13/12 G06F15/16

H04L29/06 H04L29/08 (Advanced/Invention);

H04L29/08 (Advanced/Non-invention);

A63F13/12 H04L29/06 H04L29/08 (Core/Invention);

H04L29/08 (Core/Non-invention)

International (ipc 1-7): G06F15/16 G06F9/44

CPC: H04L67/18 H04L67/303 H04L67/306 H04L67/38 H04L69/329

A63F2300/105 A63F2300/205 A63F2300/401 A63F2300/406

A63F2300/407 A63F2300/50 A63F2300/513 A63F2300/532

H04L63/08 H04L2463/102 G06N3/006 H04L63/083 A63F13/352

A63F13/71 A63F13/31 A63F13/327 A63F13/60 H04L29/06

H04L63/0428 H04L67/22 A63F13/10 A63F13/12

European: A63F13/10 A63F13/12 G06N3/00L1 H04L29/06

H04L29/06C4 H04L29/06C6A H04L29/06C6B H04L29/06C6C2

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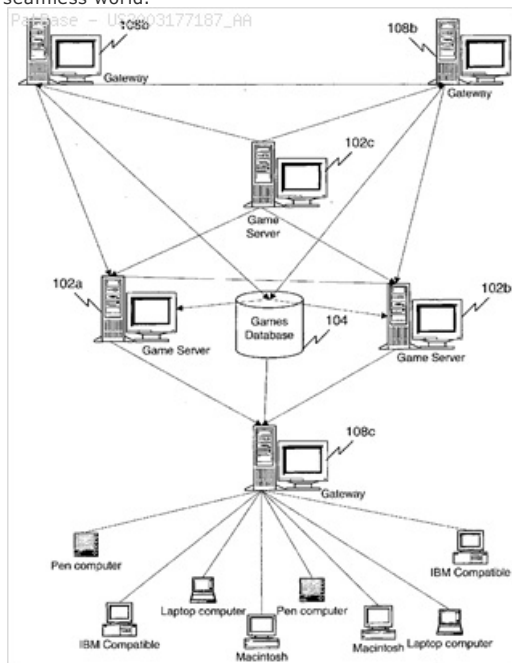
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T04L29/06C6N T04L29/08A7 T04L463/102 T04L63/08 T04L63/08D

US: 709/205N 709/205P 709/226 709/226S 709/229 709/229S

709/315 719/315 719/315S



Family:

Publication number	Publication date	Application number	Application date
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AU2002219857 AA	20020603	AU20020219857	20011127
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WO2003US04879 20030221

Assignee(s): (std): WHITEBOOK BARRY A ; LEVINE DAVID A ; MINTON GABRIEL D ; WIRT MARK C ; BUTTERFLY NET INC

Assignee(s): BUTTERFLYNET INC ; CISCO SYSTEMS INC ; EMERGENT GAME TECHNOLOGIES INC ; JERUSALEM VENTURE PARTNERS IV A LP ; COPAN INC ; JERUSALEM VENTURE PARTNERS ENTREPRENEURS FUND IV L ; CISCO SYSTEMS INC A CALIFORNIA CORP ; JERUSALEM VENTURE PARTNERS IV (ISRAEL) LP AN ISRAE ; JERUSALEM VENTURE PARTNERS IV A LP A DELAWARE PART ; JERUSALEM VENTURE PARTNERS ENTREPRENEURS FUND IV LP A DELAWARE PARTNERSHIP LTD ; JERUSALEM VENTURE PARTNERS IV (ISRAEL) LP AN ISRAEL PARTNERSHIP LTD ; JERUSALEM VENTURE PARTNERS IV A LP A DELAWARE PARTNERSHIP LTD ; ADENA VENTURES LP ; ADENA VENTURES LP A DELAWARE PARTNERSHIP LTD ; VENTURE LENDING AND LEASING IV INC ; WORLDVIEW TECHNOLOGY PARTNERS IV LP ; WORLDVIEW TECHNOLOGY INT ; WORLDVIEW STRATEGIC PARTNERS IV LP ; JERUSALEM VENTURE PARTNERS IV LP ; WALKER INVESTMENT FUND II SBIC LP ; JERUSALEM VENTURE PARTNERS IV LP A A DELAWARE PART ; WALKER INVESTMENT FUND II SBIC LP A DELAWARE PARTN ; WORLDVIEW STRATEGIC PARTNERS IV LP A DELAWARE PART ; WORLDVIEW TECHNOLOGY INT IV LP A DELAWARE PARTNERS ; WORLDVIEW TECHNOLOGY PARTNERS IV LP A DELAWARE PAR ; JERUSALEM VENTURE PARTNERS IV ISRAEL LP AN ISRAEL PARTNERSHIP LTD ; JERUSALEM VENTURE PARTNERS IV LP A A DELAWARE PARTNERSHIP LTD ; WALKER INVESTMENT FUND II SBIC LP A DELAWARE PARTNERSHIP LTD ; WORLDVIEW STRATEGIC PARTNERS IV LP A DELAWARE PARTNERSHIP LTD ; WORLDVIEW TECHNOLOGY INT IV LP A DELAWARE PARTNERSHIP LTD ; WORLDVIEW TECHNOLOGY PARTNERS IV LP A DELAWARE PARTNERSHIP LTD

Inventor(s): (std): LEVINE DAVID A ; MINTON GABRIEL D ; WIRT MARK CONWAY ; WHITEBOOK BARRY A ; WIRT MARK C

Inventor(s): DAVID A LEVINE ; GABRIEL D MINTON ; MARK C WIRT ; BARRY A WHITEBOOK ; MARK CONWAY WIRT

Agent(s): MBM AND CO

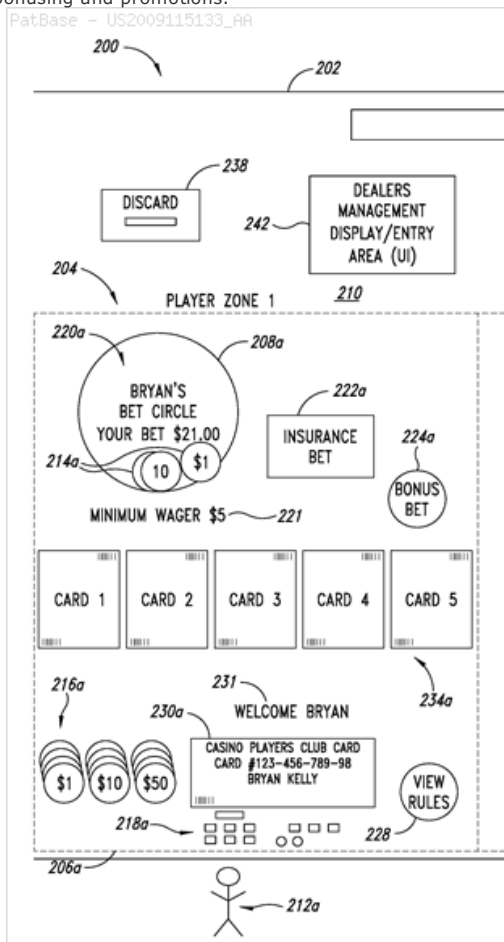
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12) Family number: 43216389 (US2009115133A)

Title: **GAME** RELATED SYSTEMS, METHODS, AND ARTICLES THAT COMBINE VIRTUAL AND PHYSICAL ELEMENTS

Abstract: Physical objects may be employed with a virtual **game** layout to enhance wager and non-wagered based gaming. **Displays** subsystems may provide a changeable or selectable virtual **game** layout with demarcations appropriate to a selected **game**. A sensor subsystem may detect physical aspects of **game** related pieces (e.g., playing cards, chips, markers, dice, spinners, tokens, tiles) as well as media (e.g., identity media, financial media). All gaming functions may occur through interaction with a playing surface, as well as functions such as order food, beverages and services. Automated tracking of players, dealers and **games** may be realized along with bonusing and promotions.

International (IPC s-9): A63F13/00 A63F13/08 A63F13/235
A63F13/24 A63F13/00 A63F3/08 A63F9/24 G06F3/041 G06F3/0488
G07F13/00 G07F17/00 G07F17/32 (Advanced/Invention);
A63F3/00 A63F3/04 (Advanced/Non-invention);
A63F13/00 A63F3/08 A63F9/24 (Core/Invention)
CPC: A63F13/00 A63F3/00072 A63F3/00643 A63F3/0423 G07F17/32
G07F17/3286 A63F13/24 A63F13/235 G07F17/3211 G07F17/3209
A63F13/28 A63F13/52 G07F17/3206 A63F13/2145 G07F17/322
European: G07F17/32 G07F17/32C2D G07F17/32C2F
G07F17/32C4D
US: 1/1 273/274 273/274P 463/20 463/25 463/25P 463/29 463/29P
463/29S 463/30 463/30S 463/31 463/31P 463/36 463/37 463/37P
463/37S 463/42



Publication number	Publication date	Application number	Application date
AU2010318585 AA	20110519	AU20100318585	20101020
AU2010318585 BB	20151126	AU20100318585	20101020

CA2778422 AA	20120420	CA20102778422	20101020
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CN102905765 B	20150617	CN201080054250	20101020
EP2501447 A1	20120926	EP20100830403	20101020
EP2501447 A4	20150513	EP20100830403	20101020
GB201208382 A0	20120627	GB20120008382	20101020
GB2488463 A1	20120829	GB20120008382	20101020
GB2488463 B2	20141126	GB20120008382	20101020
MX2012005523 A1	20120614	MX20120005523	20101020
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Priority:

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Probable Assignee: BALLY GAMING INC

Assignee(s): (std):	CHILDS JULIA ; KELLY BRYAN M ; CHILDS JULIA MARKHAM ; COHN KIMBERLY ; LYONS MARTIN STEPHEN ; MARTIN SEAN CHRISTOPHER ; KELLY BRYAN ; MARTIN SEAN ; LYONS MARTIN ; LYONS MARTIN S ; EICHMANN KENNETH J ; FERRARA PAUL J ; BALLY GAMING INC ; PATTON STEPHEN ; MITCHELL MICHAEL J ; SCHULTZ DAVID R ; MUSICK JOANNA ; WADLEIGH WILLIAM R ; VALLEJO JOHN R ; SAVAGE DAN ; PATTON STEPHEN E ; SAVAGE DANIEL
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Designated states:	AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW