

Search history

Search SFT=(BLIND AND SENSOR AND COLOUR) and IC=(G11B7) (Results 3)
1:
Search SENSOR AND BLIND AND COLOUR (Results 1443)
2:
Search 2 AND OPTICAL (Results 880)
3:
Search 3 AND SPEAKER (Results 145)
4:
Search COLOUR AND (DETECTION OR DETERMINATION) AND SPEAKER (Results 3401)
5:
Search 5 AND BLIND (Results 213)
6:
Search 6 AND FINGER (Results 66)
7:
Search COLOUR AND MEASUREMENT AND VIBRATION AND VISUAL AND IMPAIRED (Results 129)
8:
Search [SP]: chroma-heptic system the present invention provides a novel mechanism for a blind person to feel colors in a very intuitive way comprising a camera and a vibratory glove working in conjunction feeling colors as vibration on the fingers. the process for feeling colours by a blind person comprises the steps of - a viewport of the blind is captured through the glass mounted camera. the image is thus blurred and the images is reduced to sixteen colors which are strategically put in families, and accurately mapped on to the joints of fingers so that a user can intuitively understand the color pointed/coincided by his middle finger. (Results 0)
9:
Search chroma and heptic (Results 12)
10:
Search [SP]: 1. a novel mechanism for a blind person for feeling colors is provided comprising of a camera and a vibratory glove working in conjunction and providing feeling of colors as vibration on the fingers2. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein the equipments used for the setup are polycarbonate frame, wires for connecting internal wiring, customizable lenses, microcontroller module, transceiver, camera, infra red filter, antiglare glass, battery pack, and ear plugs3. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein the camera is connected to the eyewear to keep track of the user hand and its subsequent overlap4. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein glasses are enabled by camera, bluetooth, earplugs, wifi and microcontroller/ microprocessor5. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein haptic-vibro-tactile, glove, is tracked by the glasses and it houses number of micro vibration motors6. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein the process for feeling colours by a blind person comprises the steps of capturing a viewport of the blind through the glass mounted camera blurring the image captured so that the colors are converted in to standard palette colors, and categorized in blobs reducing the image to sixteen colors which are strategically put in unique families, and accurately mapped on to the joints of fingers so that a user intuitively understands the color pointed/coincided by the middle finger7. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein the blobs, h and their overlapping is detected in real-time by a cmos camera. r8. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein the unique color family to hand mapping is done for haptic color translation wherein the color family members are actually mapped on the same fingers basis their intensities and the haptic system creates different zoned vibrations based on the color blob overlay9. the mechanism for a blind person for feeling colors as claimed in claim 1 wherein all color families are mapped to five fingers and their subsequent joints i.e. three per finger through which e user feels the colours. (Results 1)
11:
Search colour and haptic (Results 1447)
12:
Search 12 and system (Results 1252)
13:
Search 13 and glove (Results 85)
14:
Search colour and haptic and vibration and glove (Results 51)
15:
Search 15 and speaker (Results 28)
16:

1) Family number: 66520034 (WO18224847A2)

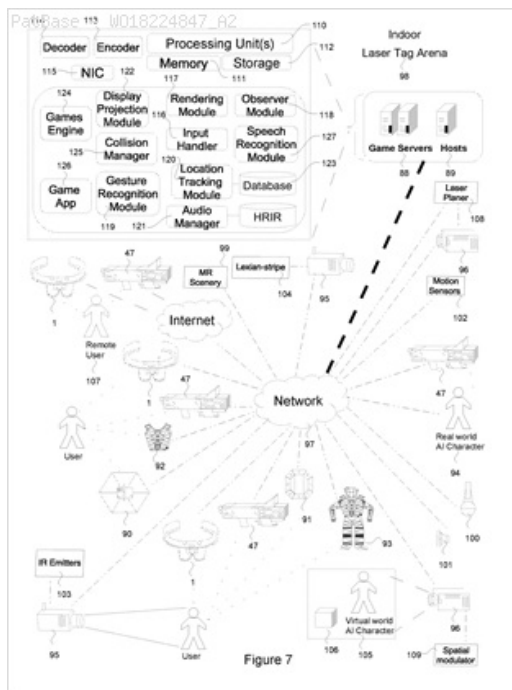
© PatBase

Title: MIXED REALITY GAMING SYSTEM

Abstract: An interactive mixed reality system for one or more users, in which both real-world entities and virtual world entities are capable of being interacted with by one or more users, or by objects (47, 91) for use by users, and the system arranged to computationally maintain game state and the evolution of events in the real-world and the virtual world, and the system arranged to generate a response (such as visual or tactile/**haptic**, or by way of cause and effect) which is experienced or perceived by the one or more users.

Classifications:

International (IPC 8-9): A63F13/21 A63F13/25 A63F13/50 A63F13/65
G01B11/25 G02B27/01 G06F3/01 G06F3/042 G06K9/00 G06T15/50
G06T19/00 (Advanced/Invention)
CPC: A63F13/65 A63F13/21 A63F13/25 A63F13/50 A63F2300/5533
A63F2300/69 G01B11/25 G02B27/017 G06F3/011 G06F1/163
G06F3/013 G06F3/016 G06F3/0346 G02B2027/0134 G02B2027/0138
G02B2027/014 G02B2027/0187



Family:

Publication number	Publication date	Application number	Application date
GB201709199 A0	20170726	GB20170009199	20170609
WO18224847 A2	20181213	WO2018GB51578	20180608
WO18224847 A3	20190110	WO2018GB51578	20180608

Priority:

GB20170009199 20170609

Probable Assignee: DELAMONT DEAN LINDSAY

Assignee(s): (std): DELAMONT DEAN LINDSAY

Inventor(s): (std): DELAMONT DEAN LINDSAY

Agent(s): BARKER BRETTELL LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

2) Family number: 76697053 (WO19224379A1)

© PatBase

Title: GOLF SHOT ALIGNMENT SYSTEM

Abstract: A golf shot alignment system {100} assists a golfer (116) to align a golf club face (124) towards a selected target (110). The golf shot alignment system (100) comprises a target selection device (102, 104) which is remote from a golf club mounted indicator device (106) which is mounted on a golf club (120) having the golf club face (124). The target selection device (102, 104) can communicate wirelessly (114, 118) with the golf club mounted indicator device (106) so as to provide target information from the target selection device (102, 104) to the golf club mounted indicator device (106). The golf club mounted indicator device (106) uses the target information which it receives to determine when the golf club face (124) is aligned towards the selected target (110) and then indicates this to the golfer (116).

Classifications:

International (IPC 8-9): A63B69/36 A63B71/06 G01S19/19

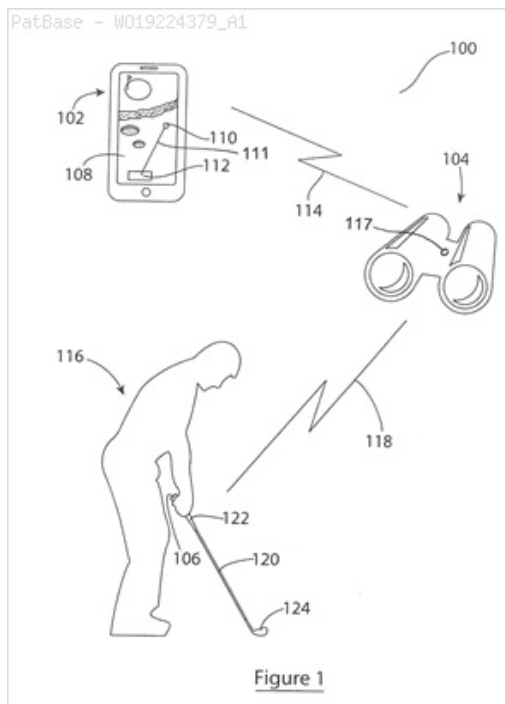
H04M1/725 (Advanced/Invention);

A63B24/00 (Advanced/Non-invention)

CPC: A63B69/3632 A63B71/0622 A63B2024/0037 A63B2071/0694

A63B2207/02 A63B2220/20 A63B2220/40 A63B2220/50

A63B2220/803 A63B2220/833 G01S19/19 H04M1/72527



Family:

Publication number	Publication date	Application number	Application date
W019224379 A1	20191128	WO2019EP63532	20190524

Priority:

IE20180000153 20180524

Probable Assignee: EGAN LESLIE

Assignee(s): (std): EGAN LESLIE

Inventor(s): (std): EGAN LESLIE

Agent(s): SCHUTTE GEAROID

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

3) Family number: 73343057 (US2019318640A)

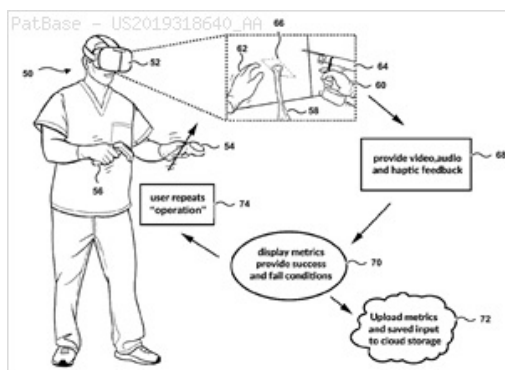
© PatBase

Title: MEDICAL VIRTUAL REALITY, MIXED REALITY OR AGUMENTED REALITY SURGICAL SYSTEM

Abstract: A virtual reality system for simulating medical processes is described, which may include a variety of features and functions, and may implement a variety of processes. In a typical illustrative situation, the virtual reality system supports a system in which a virtual medical procedure may be performed on a virtual patient (or a part thereof), the virtual patient having medical conditions that simulate those of an actual real-world patient. The virtual reality system enables a user, such as a physician, to develop a strategy for treating the actual patient by performing one or more procedures on a simulated virtual patient.

Classifications:

International (IPC 8-9): A61B34/10 G06F3/01 G06T19/00 G09B23/28 G09B23/30 G09B5/02 G09B9/00 (Advanced/Invention)
CPC: G09B5/02 G06F3/012 G06F3/013 G09B23/30 G06F3/014 A61B34/10 A61B90/36 A61B2017/00203 A61B2017/00216 A61B2034/101 A61B2034/102 A61B2034/104 A61B2034/105 A61B2090/365 A61B2090/372 A61B2090/502 G02B27/017 G02B2027/0141 G02B2027/0187 G06F3/011 G06F3/016 G06F3/017 G06T19/006 G09B5/06 G09B23/28 G06F3/01



Family:

Publication number	Publication date	Application number	Application date
US2019318640 AA	20191017	US20170072490	20170821
W019036790 A1	20190228	WO2017CA50990	20170821

Priority:

WO2017CA50990 20170821

Probable Assignee: PRECISIONOS TECH INC

Assignee(s): (std): PRECISIONOS TECH INC

Assignee(s): PRECISIONOS TECHNOLOGY INC
Inventor(s): (std): GOEL DANNY P ; OLIVEIRA ROBERTO ; O CONNOR COLIN
Agent(s): GOWLING WLG CANADA LLP
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

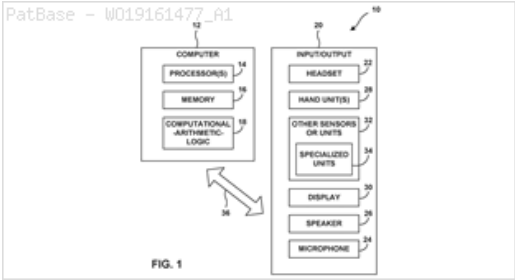
4) Family number: 75672117 (WO19161477A1) © PatBase

Title: MEDICAL VIRTUAL REALITY, MIXED REALITY OR AUGMENTED REALITY SURGICAL SYSTEM WITH MEDICAL INFORMATION

Abstract: In a virtual reality system for simulating medical processes, analyses and one or more virtual medical procedures may be performed on a virtual patient (or a part thereof), the virtual patient having medical conditions that simulate those of an actual real-world patient. The virtual reality system enables a user, such as a physician, to develop a strategy for treating the actual patient by performing one or more procedures on a simulated virtual patient. The user may be aided by the presentation of medical information from one or more sources bearing upon a physical condition exhibited by the virtual simulated patient.

Classifications:

International (IPC 8-9): A61B34/00 A61B34/10 G06F19/00
G16H50/20 G16H50/50 (Advanced/Invention)
CPC: A61B34/00 A61B34/10 G16H10/60 G16H20/40 G16H50/20
G16H50/50



Family:

Publication number	Publication date	Application number	Application date
WO19161477 A1	20190829	WO2018CA50216	20180226

Priority:

WO2018CA50216 20180226

Probable Assignee: PRECISIONOS TECH INC

Assignee(s): (std): PRECISIONOS TECH INC

Assignee(s): PRECISIONOS TECHNOLOGY INC

Inventor(s): (std): GOEL DANNY P ; OLIVEIRA ROBERTO ; O CONNOR COLIN

Agent(s): GOWLING WLG CANADA LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

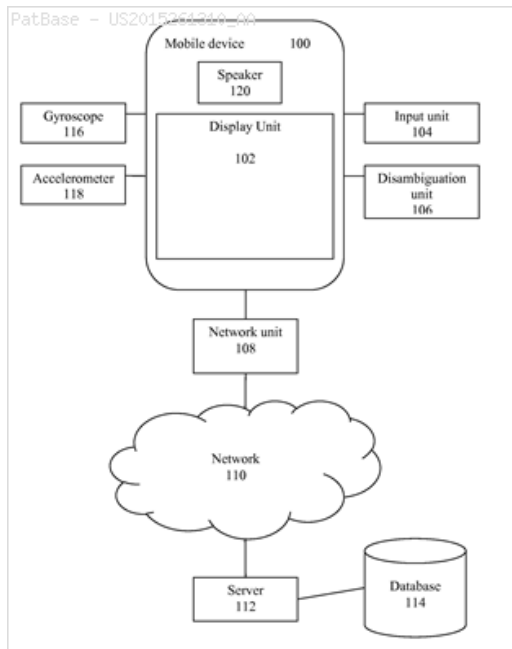
5) Family number: 55716149 (US2015261310A) © PatBase

Title: ONE-DIMENSIONAL INPUT SYSTEM AND METHOD

Abstract: A one-dimensional input system is provided. The input system comprises a plurality of characters arranged on a single dimension. User input along the dimension is continuously disambiguated. The characters may be arranged based on factors including motor efficiency, optimization of disambiguation and learnability. A touchscreen interface of the one-dimensional input system is provided. A gesture-based interface of the one-dimensional input system is also provided.

Classifications:

International (IPC 8-9): G06F1/16 G06F17/27 G06F3/01 G06F3/023
G06F3/041 G06F3/0482 G06F3/0488 (Advanced/Invention)
CPC: G06F3/0412 G06F2200/1612 G06F2200/1614 G06F2200/1636
G06F2200/1637 G06F2203/04101 G06F2203/04106 G06F2203/04808
G06F3/0233 G06F1/1626 G06F1/1694 G06F3/0237 G06F3/0482
G06F3/04883 G06F3/04886
US: 345/173



Family:

Publication number	Publication date	Application number	Application date
US2015261310 AA	20150917	US20130418426	20130730
WO14019085 A1	20140206	WO2013CA50588	20130730

Priority:

US20120678331P 20120801 US20130812105P 20130415 US20130418426 20130730
WO2013CA50588 20130730

Probable Assignee: WHIRLSCAPE INC

Assignee(s): (std): WHIRLSCAPE INC

Inventor(s): (std): TRUONG KHAI NHUT ; SMITH SEVERIN OVILA AMBROISE ; SNELGROVE WILLIAM XAVIER ; WALMSLEY WILLIAM SPENCER

Agent(s): Bhole ANIL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 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 PA PE PG PH PL PT QA RO RS RU RW 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

6) Family number: 66162207 (US2017348854A)

© PatBase

Title: ROBOTIC MANIPULATION METHODS AND SYSTEMS FOR EXECUTING A DOMAIN-SPECIFIC APPLICATION IN AN INSTRUMENTED ENVIRONMENT WITH CONTAINERS AND ELECTRONIC MINIMANIPULATION LIBRARIES

Abstract: This disclosure discloses various technical features for creating robotic humanoid movements, actions, and interactions with tools and the instrumented environment by automatically building movements for the humanoid; actions and behaviors of the humanoid based on a set of computer-encoded robotic movement and action primitives. The primitives are defined by motions/actions of articulated degrees of freedom that range in complexity from simple to complex, and which can be combined in any form in serial/parallel fashion. These motion-primitives are termed to be minimanipulations and each has a clear time-indexed command input-structure and output behavior/performance profile that is intended to achieve a certain function. Minimanipulations comprise a new way of creating a programmable-by-example platform for robots. The minimanipulation electronic libraries provide a large suite of higher-level sensing-and-execution sequences that are common building blocks for complex tasks, such as cooking, taking care of the infirm, or other tasks performed by robots.

Classifications:

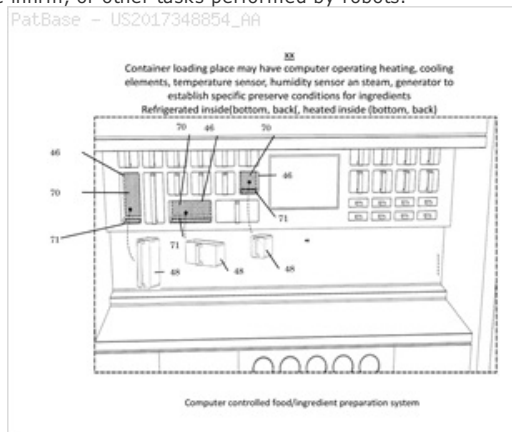
International (IPC 8-9): A47B77/08 A47B77/16 A47J47/02

B25J11/00 B25J9/16 B65D81/18 (Advanced/Invention)

CPC: B25J9/1605 A47B77/08 A47B77/16 A47J47/02 B25J9/16

B25J11/0045 B65D81/18 G05B2219/45111

US: 1/1 700/257



Family:

Publication number	Publication date	Application number	Application date
AU2016370628 AA	20180531	AU20160370628	20161216

CA3008562 AA	20180614	CA20163008562	20161216
CN108778634 A	20181109	CN201680081746	20161216
EP3389955 A2	20181024	EP20160836204	20161216
JP2019503875 T2	20190214	JP20180532161T	20161216
SG11201804933S A1	20180730	SG20181104933	20161216
US2017348854 AA	20171207	US20160382369	20161216
WO17103682 A2	20170622	WO20161B01947	20161216
WO17103682 A3	20170817	WO20161B01947	20161216

Priority:

US20150268131P 20151216 US20160288854P 20160129 US20160322118P 20160413
US20160399476P 20160925 US20160425531P 20161122 US20160382369 20161216
WO20161B01947 20161216

Probable Assignee: MBL LTD

Assignee(s): (std): MBL LTD

Assignee(s): OLEJNIK MARK

Inventor(s): (std): OLEJNIK MARK

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; PLATZOEDER MICHAEL CHRISTIAN; DESHIMARU TAKESHI; OHTSUKA FUMIAKI; NISHIJIMA TAKAKI; SUDA HIROYUKI; UESUGI HIROSHI; KONDO NAOIKI; PLATZOEDER MICHAEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA 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

7) Family number: 54270217 (US2014368428A)

© PatBase

Title: SYSTEM AND METHOD FOR ENHANCED GESTURE-BASED INTERACTION

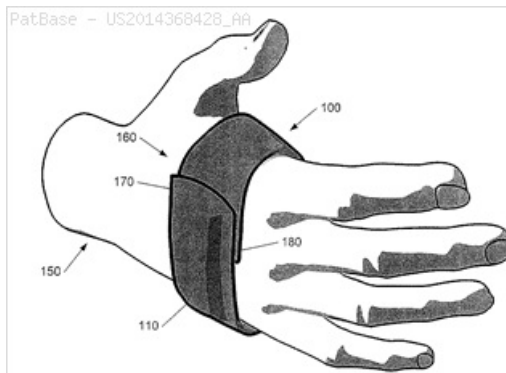
Abstract: Described herein is a wireless remote control device (100) which can be used on the hand (150) of a user to provide both hardware-based control signals which can be associated with gesture-based control signals for enhanced gesture recognition systems. The device (100) comprises a housing (110) having a sensing unit having at least one control button (120, 130, 140) which is capable of generating a control signal for an associated computerised system. A computerised system utilises information obtained from the control device (100) together with information obtained from a gesture recognition system to resolve any ambiguities due to, for example, occlusion of the hand performing the gesture or the hand being outside the field of view of an imaging system associated with the computerised system, and to trigger interactions within the gesture based interaction system.

Classifications:

International (IPC 8-9): A63F13/06 A63F13/20 A63F13/21
A63F13/428 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0346
G09G5/00 (Advanced/Invention)

CPC: A63F13/06 G06F3/005 A63F2300/1012 A63F2300/1031
A63F2300/1037 A63F2300/1043 A63F2300/1056 A63F2300/1081
A63F2300/1093 G06F3/0304 G06F2203/0381 A63F13/28 A63F13/31
A63F13/213 G06F3/017 G06F3/014 G06F3/016 G06F3/0346
G06F3/03 G06F3/033

US: 1/1 345/156



Family:

Publication number	Publication date	Application number	Application date
CN104094196 A	20141008	CN201380004925	20130109
CN104094196 B	20170711	CN201380004925	20130109
EP2613223 A1	20130710	EP20120000116	20120109
JP2015507803 T2	20150312	JP20140550738T	20130109
JP5969626 B2	20160817	JP20140550738T	20130109
KR101666096 B1	20161013	KR20147020592	20130109
KR20140128305 A	20141105	KR20147020592	20130109
US2014368428 AA	20141218	US20130370590	20130109
US9360944 BB	20160607	US20130370590	20130109
WO13104681 A1	20130718	WO2013EP50318	20130109

Priority:

EP20120000116 20120109 WO2013EP50318 20130109

Probable Assignee: SOFTKINETIC SOFTWARE

Assignee(s): (std): SOFTKINETIC SOFTWARE ; SOFTKINETIC SOFTWARE

Inventor(s): (std): PINAULT GILLES

Agent(s): MACKETT MARGARET DAWN; ASAMURA PATENT OFFICE PC; REINHART BOERNER VAN DEUREN PC; MACKETT MARGARET ET AL

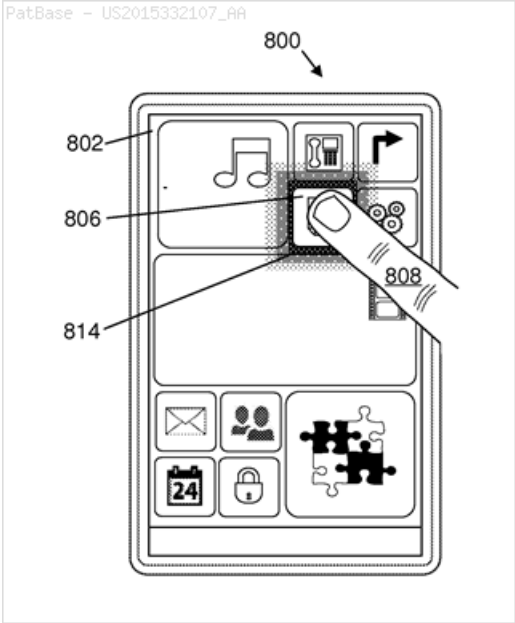
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

Title: AN APPARATUS AND ASSOCIATED METHODS

Abstract: An apparatus, the apparatus comprising at least one processor, and at least one memory including computer program code, the at least one memory and the computer program code configured, with the at least one processor, to cause the apparatus to perform at least the following: during a detected interaction with a graphical user interface element, provide a highlight associated with the graphical user interface element, the size of the highlight dependent upon the size of the graphical user interface element prior to the detected interaction.

Classifications:

International (IPC 8-9): G06F3/048 G06F3/0481 G06K9/20 (Advanced/Invention)
CPC: G06F3/0481 G06F3/016 G06F3/0482 G06F3/04842 G06F3/0488 G06F3/167 G06F2203/014
US: 715/765



Family:

Publication number	Publication date	Application number	Application date
US2015332107 AA	20151119	US20120655092	20121224
WO14100953 A1	20140703	WO2012CN087337	20121224

Priority:

WO2012CN087337 20121224

Probable Assignee: NOKIA TECHNOLOGIES OY

Assignee(s): (std): NOKIA CHINA INVEST CO LTD ; NOKIA CORP ; NOKIA TECHNOLOGIES OY

Assignee(s): NOKIA CHINA INVESTMENT CO ; NOKIA CHINA INVESTMENT CO LTD

Inventor(s): (std): PANIARAS YANNIS

Agent(s): KING AND WOOD MALLESONS

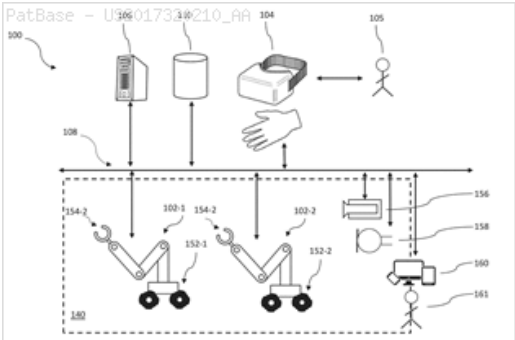
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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

Title: SYSTEMS, DEVICES, ARTICLES, AND METHODS FOR USING TRAINED ROBOTS

Abstract: Robotic systems, methods of operation of robotic systems, and storage media including processor-executable instructions are disclosed herein. The system may include a robot, at least one processor in communication with the robot, and an operator interface in communication with the robot and the at least one processor. The method may include executing a first set of autonomous robot control instructions which causes a robot to autonomously perform the at least one task in an autonomous mode, and generating a second set of autonomous robot control instructions from the first set of autonomous robot control instructions and a first set of environmental sensor data received from a sensor. The second set of autonomous robot control instructions when executed causes the robot to autonomously perform the at least one task. The method may include producing at least one signal that represents the second set of autonomous robot control instructions.

Classifications:

International (IPC 8-9): B25J9/16 B65G1/137 (Advanced/Invention)
CPC: B25J9/161 B25J9/163 B25J9/1656 B25J9/1687 B25J9/1694 B65G1/1378
US: 1/1 700/216



Family:

Publication number	Publication date	Application number	Application date
US2017320210 AA	20171109	US20170589673	20170508
US2019270201 AA	20190905	US20190416005	20190517
US10322506 BB	20190618	US20170589673	20170508

Priority:

US20160332858P 20160506 US20160340907P 20160524 US20160348513P 20160610
US20170589673 20170508 US20190416005 20190517

Probable Assignee: KINDRED SYSTEMS INC

Assignee(s): (std): KINDRED SYSTEMS INC

Inventor(s): (std): RODRIGUES OSWIN ; ROSE GEORGE SAMUEL ; NORTON OLIVIA S ; DING WEIGUANG ; BERGSTR
JAMES STERLING ; RUDY JAN STANISLAW

Agent(s): SEED IP LAW GROUP LLP

10) Family number: 33208333 (US2006187196A)

© PatBase

Title: SYSTEM AND METHOD FOR GESTURE BASED CONTROL SYSTEM

Abstract: The system provides a gestural interface to various visually presented elements, presented on a display screen or screens. A gestural vocabulary includes 'instantaneous' commands, in which forming one or both hands into the appropriate 'pose' results in an immediate, one-time action; and 'spatial' commands, in which the operator either refers directly to elements on the screen by way of literal 'pointing' gestures or performs navigational maneuvers by way of relative or "offset" gestures. The system contemplates the ability to identify the users hands in the form of a **glove** or **gloves** with certain indicia provided thereon, or any suitable means for providing recognizable indicia on a user's hands or body parts. A system of cameras can detect the position, orientation, and movement of the user's hands and translate that information into executable commands.

Classifications:

International (ipc 8-9): A63F13/00 B60R16/02 G02B27/00
G02B27/52 G06F G06F13/00 G06F15/16 G06F15/163 G06F16/242
G06F17/00 G06F17/27 G06F17/30 G06F19/00 G06F3/00 G06F3/01
G06F3/02 G06F3/023 G06F3/03 G06F3/033 G06F3/0346 G06F3/0354
G06F3/038 G06F3/041 G06F3/042 G06F3/048 G06F3/0481
G06F3/0482 G06F3/0484 G06F3/0488 G06F3/14 G06F3/147
G06F9/06 G06F9/38 G06F9/44 G06F9/451 G06F9/46 G06F9/48
G06F9/50 G06F9/52 G06F9/54 G06K7/00 G06K9/00 G06K9/20
G06K9/32 G06K9/34 G06K9/46 G06K9/62 G06K9/72 G06N5/02
G06T1/00 G06T1/20 G06T13/40 G06T7/00 G06T7/20 G09G
G09G3/00 G09G5/00 G09G5/08 G09G5/34 H04L15/00 H04L29/08
H04M3/56 H04N13/00 H04N13/02 H04N5/232 H04N5/247 H04N5/44
H04N7/14 H04N7/15 H04N7/18 (Advanced/Invention);
G06F3/00 G06F3/01 G06F3/03 G06F3/041 G06F3/048 G06F3/0484
G06F3/14 G06F7/00 G06F9/38 G06F9/44 G06F9/46 G06K9/32
G06K9/46 G06T1/00 (Advanced/Non-invention);
G06F13/00 G06F15/16 G06F17/00 G06F17/30 G06F3/00 G06F3/01
G06F3/03 G06F3/033 G06F3/048 G06F9/06 G06F9/46 G06T7/00
G09G5/00 G09G5/08 H04L15/00 H04N13/00 H04N13/02 H04N5/44
H04N7/18 (Core/Invention)

International (ipc 1-7): G06F9/46

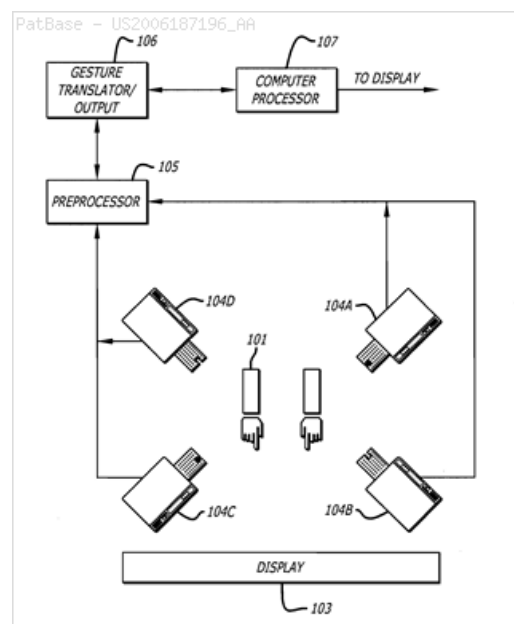
CPC: G06K7/0008 G06K7/00 G06F3/0482 G06F2203/04806
G02B27/0075 G02B27/52 G06K9/723 G06K9/6227 G06K9/00993
G06K2209/01 G06F9/06 G06F9/44 G06T1/00 G02B27/0101
G06F3/0487 G06F3/16 G06F3/04815 G06T2207/10028 H04N5/247
G06F3/04883 G06T7/20 G06T2207/10024 G06T2207/20016
G06T2207/20076 G06T2207/20081 G06T2207/30204 G01S3/00
G06F9/38 G06F11/0706 G06F3/033 G06F3/14 G06T7/246
G06T2207/10016 G06T2207/30196 G06T7/194 G06K9/00342
G06F3/014 H04N5/232 H04N7/18 H04N7/181 G06F2209/547 B60K35/00 B60K37/06 G16H10/20 G06F1/1694 G06F3/03
G06F17/00 G06F2203/04808 G06K9/20 G09G5/08 G09G5/00 G06T7/00 G06F9/4443 G06F16/00 G16C99/00 G06F17/30477
G06F17/30412 G06F19/701 G16C10/00 B60K2370/146 B60K2370/1464 B60K2370/595 G06F9/52 G06F9/4881 G06F16/2455
G06F3/01 G06F3/0485 G09G3/003 G09G2320/0261 G06F3/0425 G06F3/147 G09G3/002 G06F3/03547 G06F3/1423
G06F2203/0381 G06F2203/0383 G06K9/00355 G09G5/34 G09G2340/045 G09G2354/00 G06F3/1454 G06K2009/3291
G06F3/02 G06F3/0236 G06F3/0346 G06F3/03545 G06F3/04812 G06K9/00389 G06K9/4642 H04M3/567 H04N7/147
G06F3/04842 G06F3/04845 H04L67/025 G06F9/451 G06F9/542 G06F9/544 G06F40/205 G06K9/00973 G06F3/041 G06F16/244
G06F2203/04108 G06F3/0304 G06F3/0325 G06K9/00375 G06K2009/3225 G06F3/005 G06F3/011 G06K9/00201 G06K9/00335
G06K9/00362 H04N7/15 G06F3/017

European: G06F3/01B G06F3/01G G06F3/0346 G06F3/03H G06F3/03H6 G06F3/0488G G06F9/44W G06F9/54B G06F9/54F
G06K9/00G2 G06K9/00H2 G06K9/00Y G06K9/00Z G06T7/20C S06F3/14C S06F3/14T S06K9/32P1 S06T207/10016
S06T207/30196

US: 1/1 340/686.1 345/156 345/156P 345/158 345/158P 345/158S 345/166 345/169 345/174 345/175 345/207 345/502
345/502S 345/619 345/619P 348/143 348/143S 348/42 348/42P 348/48 348/48P 348/E13.001 348/E13.001S 348/E13.074
348/E13.074S 348/E7.085 348/E70.85S 382/103 382/103S 382/107 382/107S 706/58 706/58P 707/755 707/760 707/769
707/769P 707/E17.014 707/E17.014S 715/740 715/848 715/850 715/850S 715/863 715/863P 715/863S 718/106 719/312
719/312S 719/318 719/318P 719/318S 719/328 719/328S

Family:

Publication number	Publication date	Application number	Application date
CN101536494 A	20090916	CN200680007549	20060208
CN101536494 B	20170426	CN200680007549	20060208
CN101689152 A	20100331	CN200880017354	20080424
CN101689152 B	20161005	CN200880017354	20080424
CN102047203 A	20110504	CN200980120542	20090402
CN102047203 B	20160817	CN200980120542	20090402
CN102112945 A	20110629	CN200980130788	20090618
CN102112945 B	20160810	CN200980130788	20090618
CN102177513 A	20110907	CN200980140293	20090903
CN102177513 B	20151202	CN200980140293	20090903
CN102224476 A	20111019	CN200980146827	20091014
CN102224476 B	20170801	CN200980146827	20091014
CN102460510 A	20120516	CN201080033408	20100527



CN102460510 B	20160420	CN201080033408	20100527
CN102804206 A	20121128	CN201080030018	20100504
CN102804206 B	20161130	CN201080030018	20100504
CN103930944 A	20140716	CN201280040950	20120625
CN103930944 B	20160824	CN201280040950	20120625
CN103988150 A	20140813	CN201280025109	20120326
CN103988150 B	20180213	CN201280025109	20120326
CN105122790 A	20151202	CN201380070135	20131112
EP1851750 A2	20071107	EP20060720525	20060208
EP1851750 A4	20100825	EP20060720525	20060208
EP2150893 A2	20100210	EP20080746810	20080424
EP2150893 A4	20120822	EP20080746810	20080424
EP2163987 A2	20100317	EP20090014670	20080424
EP2163987 A3	20130123	EP20090014670	20080424
EP2266016 A2	20101229	EP20090728557	20090402
EP2266016 A4	20141029	EP20090728557	20090402
EP2304527 A1	20110406	EP20090767774	20090618
EP2304527 A4	20130327	EP20090767774	20090618
EP2338114 A1	20110629	EP20090812234	20090903
EP2338114 A4	20111005	EP20090812234	20090903
EP2338114 B1	20170315	EP20090812234	20090903
EP2350774 A1	20110803	EP20090821219	20091014
EP2350774 A4	20141105	EP20090821219	20091014
EP2427857 A1	20120314	EP20100772727	20100504
EP2427857 A4	20121226	EP20100772727	20100504
EP2427857 B1	20160914	EP20100772727	20100504
EP2435986 A2	20120404	EP20100781229	20100527
EP2435986 A4	20150422	EP20100781229	20100527
EP2689413 A2	20140129	EP20120762913	20120326
EP2689413 A4	20150722	EP20120762913	20120326
EP2724337 A1	20140430	EP20120802574	20120625
EP2724337 A4	20150617	EP20120802574	20120625
EP2845084 A2	20150311	EP20130784768	20130506
EP2845084 A4	20160831	EP20130784768	20130506
EP2893421 A1	20150715	EP20130801416	20130604
EP2893421 A4	20161130	EP20130801416	20130604
EP2918074 A1	20150916	EP20130853250	20131112
EP2918074 A4	20170104	EP20130853250	20131112
EP2941739 A2	20151111	EP20130868715	20131231
EP2941739 A4	20160831	EP20130868715	20131231
ES2623816 T3	20170712	ES20090812234T	20090903
HK1104652 A1	20080118	HK20070112368	20071112
HK1104652 A3	20080118	HK20070112368	20071112
HK1136886 A1	20100709	HK20100102790	20100317
HK1142420 A1	20101203	HK20100108850	20100317
HK1142981 A1	20101217	HK20100109407	20100930
HK1153009 A1	20120316	HK20110106982	20110707
HK1153009 B	20180112	HK20110106982	20110707
IN00508DN2014 A	20160624	IN2014DN00508	20140122
IN03603DN2011 A	20120406	IN2011DN03603	20110513
IN05886DN2015 A	20160115	IN2015DN05886	20150704
IN07608DN2009 A	20100702	IN2009DN07608	20091123
IN09044DN2011 A	20130222	IN2011DN09044	20111118
IN09169DN2013 A	20160603	IN2013DN09169	20131024
IN10170DN2011 A	20121019	IN2011DN10170	20111222
IN276841 B	20161104	IN2007DN06241	20070810
JP2008530661 T2	20080807	JP20070554346T	20060208
JP2010525494 T2	20100722	JP20100506501T	20080424
JP2011523112 T2	20110804	JP20110503166T	20090402
JP2011525283 T2	20110915	JP20110514820T	20090618
JP2012502364 T2	20120126	JP20110526203T	20090903
JP2012506097 T2	20120308	JP20110532225T	20091014
JP2012526328 T2	20121025	JP20120509917T	20100504
JP2012528405 T2	20121112	JP20120513264T	20100527
JP2013047978 A2	20130307	JP20120242791	20121102
JP2014221636 A2	20141127	JP20140130114	20140625
JP2014222506 A2	20141127	JP20140126090	20140619
JP2015525381 T2	20150903	JP20150510510T	20130506
JP2016504652 T2	20160212	JP20150542019T	20131112
JP2018077882 A2	20180517	JP20170246355	20171222
JP5631535 B2	20141126	JP20070554346T	20060208
JP5697590 B2	20150408	JP20110503166T	20090402
JP5698733 B2	20150408	JP20120509917T	20100504
JP5782431 B2	20150924	JP20120513264T	20100527
JP5788853 B2	20151007	JP20120242791	20121102
JP5805537 B2	20151104	JP20110532225T	20091014
JP5806615 B2	20151110	JP20110526203T	20090903
JP5905662 B2	20160420	JP20100506501T	20080424
JP6116064 B2	20170419	JP20140130114	20140625
KR100960577 B1	20100603	KR20077018809	20060208
KR101545360 B1	20150819	KR20097024470	20080424

KR101550438 B1	20150994	KR20107004659	20090003
KR101649769 B1	20160819	KR20117011074	20091014
KR101652535 B1	20160830	KR20117001280	20090618
KR101705924 B1	20170210	KR20117030977	20100527
KR101821418 B1	20180123	KR20117029041	20100504
KR20070116794 A	20071211	KR20077018809	20060208
KR20100017321 A	20100216	KR20097024470	20080424
KR20100136993 A	20101229	KR20107024659	20090402
KR20110022057 A	20110304	KR20117001280	20090618
KR20110058871 A	20110601	KR20117007835	20090903
KR20110079839 A	20110708	KR20117011074	20091014
KR20120034637 A	20120412	KR20117029041	20100504
KR20120034672 A	20120412	KR20117030977	20100527
KR20140033025 A	20140317	KR20137028333	20120326
KR20140068855 A	20140609	KR20147001977	20120625
KR20150105308 A	20150916	KR20157015783	20131112
NO20074200 A	20071107	NO20070004200	20070816
NO20074200 L	20071107	NO20070004200	20070816
NO20093236 A	20100115	NO20090003236	20091028
NO20093236 L	20100115	NO20090003236	20091028
NO339941 B1	20170220	NO20070004200	20070816
US2006187196 AA	20060824	US20060350697	20060208
US2008271053 AA	20081030	US20080109263	20080424
US2009231278 AA	20090917	US20090417252	20090402
US2009278915 AA	20091112	US20090487623	20090618
US2010053304 AA	20100304	US20090553902	20090903
US2010060570 AA	20100311	US20090553845	20090903
US2010060576 AA	20100311	US20090553929	20090903
US2010066676 AA	20100318	US20090557464	20090910
US2010090946 AA	20100415	US20090572689	20091002
US2010090947 AA	20100415	US20090572698	20091002
US2010127968 AA	20100527	US20090579372	20091014
US2010128062 AA	20100527	US20090579340	20091014
US2010131549 AA	20100527	US20090579354	20091014
US2010280988 AA	20101104	US20100773667	20100504
US2010281440 AA	20101104	US20100773605	20100504
US2011018803 AA	20110127	US20100789302	20100527
US2011025598 AA	20110203	US20100789262	20100527
US2011025603 AA	20110203	US20100789129	20100527
US2012268364 AA	20121025	US20120430509	20120326
US2012326963 AA	20121227	US20120430626	20120326
US2013076522 AA	20130328	US20120532527	20120625
US2013076616 AA	20130328	US20120532605	20120625
US2013076617 AA	20130328	US20120532628	20120625
US2013312009 AA	20131121	US20130759472	20130205
US2013347006 AA	20131226	US20130850837	20130326
US2014035805 AA	20140206	US20130909980	20130604
US2014145929 AA	20140529	US20130888174	20130506
US2014145932 AA	20140529	US20130029450	20130917
US2014152546 AA	20140605	US20130029046	20130917
US2014195988 AA	20140710	US20130048747	20131008
US2014225822 AA	20140814	US20130021628	20130909
US2014240231 AA	20140828	US20130064736	20131028
US2014298269 AA	20141002	US20140224947	20140325
US2014325373 AA	20141030	US20130078259	20131112
US2015054729 AA	20150226	US20140216500	20140317
US2015077326 AA	20150319	US20130145016	20131231
US2015100593 AA	20150409	US20140276093	20140513
US2015138086 AA	20150521	US20140206800	20140312
US2015205364 AA	20150723	US20140481662	20140909
US2015309581 AA	20151029	US20140543272	20141117
US2015316993 AA	20151105	US20150606283	20150127
US2015331497 AA	20151119	US20140551331	20141124
US2015371082 AA	20151224	US20150606563	20150127
US2015371083 AA	20151224	US20150606788	20150127
US2016018896 AA	20160121	US20150701844	20150501
US2016070755 AA	20160310	US20150733125	20150608
US2016116984 AA	20160428	US20150733051	20150608
US2017038846 AA	20170209	US20160062402	20160307
US2017068324 AA	20170309	US20160268766	20160919
US2017235617 AA	20170817	US20160282171	20160930
US2017300122 AA	20171019	US20170582243	20170428
US2017308743 AA	20171026	US20170644092	20170707
US2017329413 AA	20171116	US20170597687	20170517
US2017351734 AA	20171207	US20170686529	20170825
US2018004583 AA	20180104	US20170705077	20170914
US2018011541 A9	20180111	US20160268766	20160919
US2018107281 AA	20180419	US20170843753	20171215
US2018136734 AA	20180517	US20170786902	20171018
US2018144030 AA	20180524	US20180875661	20180119
US2018173313 AA	20180621	US20160280473	20160929

US2018203520 AA	20180719	US20180918636	20180312
US2018218205 AA	20180802	US20180926280	20180320
US2018299966 AA	20181018	US20180949961	20180410
US2018348883 AA	20181206	US20180051829	20180801
US2019171496 AA	20190606	US20190253554	20190122
US2019187801 AA	20190620	US20190265798	20190201
US2019220100 AA	20190718	US20190368692	20190328
US2019272043 AA	20190905	US20190418637	20190521
US2019286243 AA	20190919	US20190430913	20190604
US7598942 BB	20091006	US20060350697	20060208
US8370383 BB	20130205	US20090579354	20091014
US8407725 BB	20130326	US20080109263	20080424
US8531396 BB	20130910	US20090553845	20090903
US8537111 BB	20130917	US20090553902	20090903
US8537112 BB	20130917	US20090553929	20090903
US8665213 BB	20140304	US20100789302	20100527
US8669939 BB	20140311	US20100789262	20100527
US8681098 BB	20140325	US20100773605	20100504
US8723795 BB	20140513	US20100773667	20100504
US8830168 BB	20140909	US20090572698	20091002
US8866740 BB	20141021	US20090572689	20091002
US8890813 BB	20141118	US20130888174	20130506
US8896531 BB	20141125	US20120430626	20120326
US8941588 BB	20150127	US20120430509	20120326
US8941589 BB	20150127	US20120532527	20120625
US8941590 BB	20150127	US20120532628	20120625
US9052970 BB	20150609	US20090579372	20091014
US9063801 BB	20150623	US20090579340	20091014
US9075441 BB	20150707	US20090417252	20090402
US9317128 BB	20160419	US20140216500	20140317
US9471147 BB	20161018	US20130021628	20130909
US9471148 BB	20161018	US20130029046	20130917
US9471149 BB	20161018	US20130029450	20130917
US9495013 BB	20161115	US20140224947	20140325
US9495228 BB	20161115	US20130759472	20130205
US9606630 BB	20170328	US20140481662	20140909
US9684380 BB	20170620	US20130078259	20131112
US9740293 BB	20170822	US20130145016	20131231
US9740922 BB	20170822	US20150606563	20150127
US9778751 BB	20171003	US20150733051	20150608
US9779131 BB	20171003	US20140276093	20140513
US9804902 BB	20171031	US20130850837	20130326
US9823747 BB	20171121	US20100789129	20100527
US9880635 BB	20180130	US20170582243	20170428
US9910497 BB	20180306	US20090557464	20090910
US9933852 BB	20180403	US20150701844	20150501
US9952673 BB	20180424	US20130048747	20131008
US9971807 BB	20180515	US20150733125	20150608
US9984285 BB	20180529	US20170644092	20170707
US9990046 BB	20180605	US20160062402	20160307
US10061392 BB	20180828	US20160268766	20160919
US10067571 BB	20180904	US20170843753	20171215
US10223418 BB	20190305	US20180875661	20180119
US10235412 BB	20190319	US20170686529	20170825
US10255489 BB	20190409	US20180926280	20180320
US10296099 BB	20190521	US20170597687	20170517
US10338693 BB	20190702	US20180949961	20180410
US10353483 BB	20190716	US20180051829	20180801
US10521021 BB	20191231	US20190265798	20190201
WO06086508 A2	20060817	WO2006US04497	20060208
WO06086508 A3	20090423	WO2006US04497	20060208
WO06086508 C2	20061214	WO2006US04497	20060208
WO08134452 A2	20081106	WO2008US61457	20080424
WO08134452 A3	20091230	WO2008US61457	20080424
WO09124181 A2	20091008	WO2009US39285	20090402
WO09124181 A3	20091230	WO2009US39285	20090402
WO09155465 A1	20091223	WO2009US47863	20090618
WO10028176 A1	20100311	WO2009US55930	20090903
WO10030822 A1	20100318	WO2009US56569	20090910
WO10045394 A1	20100422	WO2009US60725	20091014
WO10129599 A1	20101111	WO2010US33613	20100504
WO10138743 A2	20101202	WO2010US36440	20100527
WO10138743 A3	20110310	WO2010US36440	20100527
WO12135153 A2	20121004	WO2012US30628	20120326
WO12135153 A3	20140501	WO2012US30628	20120326
WO12178202 A1	20121227	WO2012US44080	20120625
WO13166513 A2	20131107	WO2013US39764	20130506
WO13166513 A3	20140109	WO2013US39764	20130506
WO13184704 A1	20131212	WO2013US44150	20130604
WO14058909 A2	20140417	WO2013US63925	20131008
WO14058909 A3	20140717	WO2013US63925	20131008

WO14066908 A1	20140501	WO2013US67129	20131028
WO14075090 A1	20140515	WO2013US69725	20131112
WO14106240 A2	20140703	WO2013US78460	20131231
WO14106240 A3	20150820	WO2013US78460	20131231

Priority:

US20050651290P	20050208	JP20070554346	20060208	JP20070554346T	20060208
US20060350697	20060208	WO2006US04497	20060208	US20070926116P	20070424
IN2007DN06241	20070810	US20080041892P	20080402	EP20080746810	20080424
JP20100506501	20080424	JP20100506501T	20080424	US20080109263	20080424
WO2008US61457	20080424	US20080073740P	20080618	US20080093852P	20080903
US20080095850P	20080910	US20080105243P	20081014	US20080105253P	20081014
US20080105243	20081014	US20090417252	20090402	WO2009US39285	20090402
US20090175374P	20090504	US20090181621P	20090527	JP20110514820	20090618
JP20110514820T	20090618	US20090487623	20090618	WO2009US47863	20090618
EP20090812234	20090903	US20090533902	20090903	US20090553845	20090903
US20090553902	20090903	US20090553929	20090903	WO2009US55930	20090903
US20090557464	20090910	US20090572689	20091002	US20090572698	20091002
US20090579354	20091014	US20090579340	20091014	US20090579372	20091014
WO2009US60725	20091014	HK20100102790	20100317	US20100773667	20100504
US20100773605	20100504	WO2010US33613	20100504	US20100789129	20100527
US20100789262	20100527	US20100789302	20100527	WO2010US36440	20100527
US20110467783P	20110325	US20110467738P	20110325	US20110500416P	20110623
US20120430509	20120326	US20120430626	20120326	WO2012US30628	20120326
US20120643124P	20120504	US20120655423P	20120604	US20120532527	20120625
US20120532605	20120625	US20120532628	20120625	WO2012US44080	20120625
US20120711152P	20121008	US20120719109P	20121026	US20120722007P	20121102
US20120725449P	20121112	US20120747940P	20121231	US20130759472	20130205
US20130785053P	20130314	US20130787792P	20130315	US20130787650P	20130315
US20130850837	20130326	WO2013US39764	20130506	US20130888174	20130506
WO2013US44150	20130604	US20130909980	20130604	US20130021628	20130909
US20130029450	20130917	US20130029046	20130917	US20130048747	20131008
US20130064736	20131028	US20130075259	20131108	JP20150542019T	20131112
US20130078259	20131112	WO2013US69725	20131112	US20130145016	20131231
WO2013US78460	20131231	US20140206800	20140312	US20140216500	20140317
US20140224947	20140325	US20140276093	20140513	US20140481662	20140909
US20140543272	20141117	US20140551331	20141124	US20150606563	20150127
US20150606788	20150127	US20150606283	20150127	US20150701844	20150501
US20150733125	20150608	US20150733051	20150608	US20160062402	20160307
US20160268766	20160919	US20160280473	20160929	US20160282171	20160930
US20170582243	20170428	US20170597687	20170517	US20170644092	20170707
US20170686529	20170825	US20170705077	20170914	US20170786902	20171018
US20170843753	20171215	JP20170246355	20171222	US20180875661	20180119
US20180918636	20180312	US20180926280	20180320	US20180949961	20180410
US20180051829	20180801	US20190253554	20190122	US20190265798	20190201
US20190368692	20190328	US20190418637	20190521	US20190430913	20190604

Probable Assignee: OBLONG IND INC

Assignee(s): (std): BELKER HARALD ; BROWNING ALAN ; CHAK DAN ; CSASZAR AMBRUS ; HAWKES PETER ; KRAMER KWINDLA H ; KRAMER MATTIE RUTH ; MINNEN DAVID ; KOGAN DIMA ; HOLLENBACH KATE ; TREADLE AND LOAM PROVISIONERS ; UNDERKOFFLER JOHN S ; PARENT KEVIN T ; ST HILAIRE PIERRE ; WHITE TOM ; SPARRELL CARLTON ; YARIN PAUL ; VALLI ALESSANDRO ; VALDES MIGUEL SANCHEZ ; RICK TOBIAS ; SINGH NAVJOT ; UNDERKOFFLER JOHN ; SINGH NAVGOT ; OBLONG IND INC ; KRAMER KWINDLA HULTMAN

Assignee(s): OBLONG IND ; SILICON VALLEY BANK ; SQUARE 1 BANK ; OBLONG INDUSTRIES, INC.

Inventor(s): (std): CHAK DAN ; HAWKES PETER ; RICK TOBIAS ; VALDES MIGUEL SANCHEZ ; VALLI ALESSANDRO ; BROWNING ALAN ; JOHN S UNDERKOFFLER ; KEVIN T PARENT ; BELKER HARALD ; SPARRELL CARLTON ; HULTMAN KRAMER KWINDLA ; KRAMER KWINDLA HULTMAN ; KRAMER KWINDLA H ; PARENT KEVIN T ; UNDERKOFFLER JOHN S ; SINGH NAVGOT ; SINGH NAVJOT ; HOLLENBACH KATE ; HARALD BELKER ; CARLTON SPARRELL ; MINNEN DAVID ; UNDERKOFFLER JOHN ; KRAMER KWINDLA ; PIERRE ST HILAIRE ; KRAMER MATTIE RUTH ; WHITE TOM ; KRAMER KWINDLA H ; ST HILAIRE PIERRE ; YARIN PAUL ; KOGAN DIMA ; CSASZAR AMBRUS ; JOHN UNDERKOFFLER ; HOLLENBACH KATE ; KWINDLA HULTMAN KRAMER

Inventor(s): PARENT KEVIN

Agent(s): BERESFORD KEITH DENIS LEWIS; Beresford Keith Denis Lewis; LOPEZ MARIA EMILIA; SIT FUNG KWONG AND SHUM; AKIMOTO YOSHIO; ONO SHINJIRO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; SHAMOTO ICHIO; HOSHINO OSAMU; TANAKA HIDEO; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; BROWN RAYSMAN MILLSTEIN FELDER AND STEINER LLP; COURTNEY STANIFORD AND GREGORY LLP; GREGORY AND MARTENSEN LLP; GREGORY AND SAWRIE LLP; IPR LAW GROUP PC; JEFFREY; SCHOX JEFFREY; JEFFREY SCHOX; TCHAKERIAN SHANT; HARRIMAN J D II; GREGORY RICHARD L ET AL; GREGORY RICHARD L

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BN 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA 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 YU ZA ZM ZW