Registro 1 de 42

Patent Number(s): US2017006981-A1

Title: Global Positioning System (GPS)-enabled walking stick for e.g. visually-impaired people has directional sensors integrated into staff, and GPS controls that provide directional navigation for user

Inventor Name(s): SAMSON N

Patent Assignee(s): SAMSON N (SAMS-Individual)

Derwent Primary Accession No.: 2017-03084M

Abstract: NOVELTY - The GPS-enabled walking stick (100) has a staff (20), a handle (25) at a top end of the staff, GPS controls (29), and directional sensors (28) integrated into the staff. The GPS controls provide directional navigation for a user. The GPS controls are adapted for Bluetooth communication, and/or are adapted to be paired with a smartphone.

USE - GPS-enabled walking stick for e.g. visually-impaired people.

ADVANTAGE - Detects directional movement of the user and further provide immediate feedback with respect to directions. Sensors provide directional information so that a user may have an indication as to the actual directional navigation. Achieves an effective innovative system to provide directional instructions for a user.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the GPS-enabled walking stick.

Staff (20)

Handle (25)

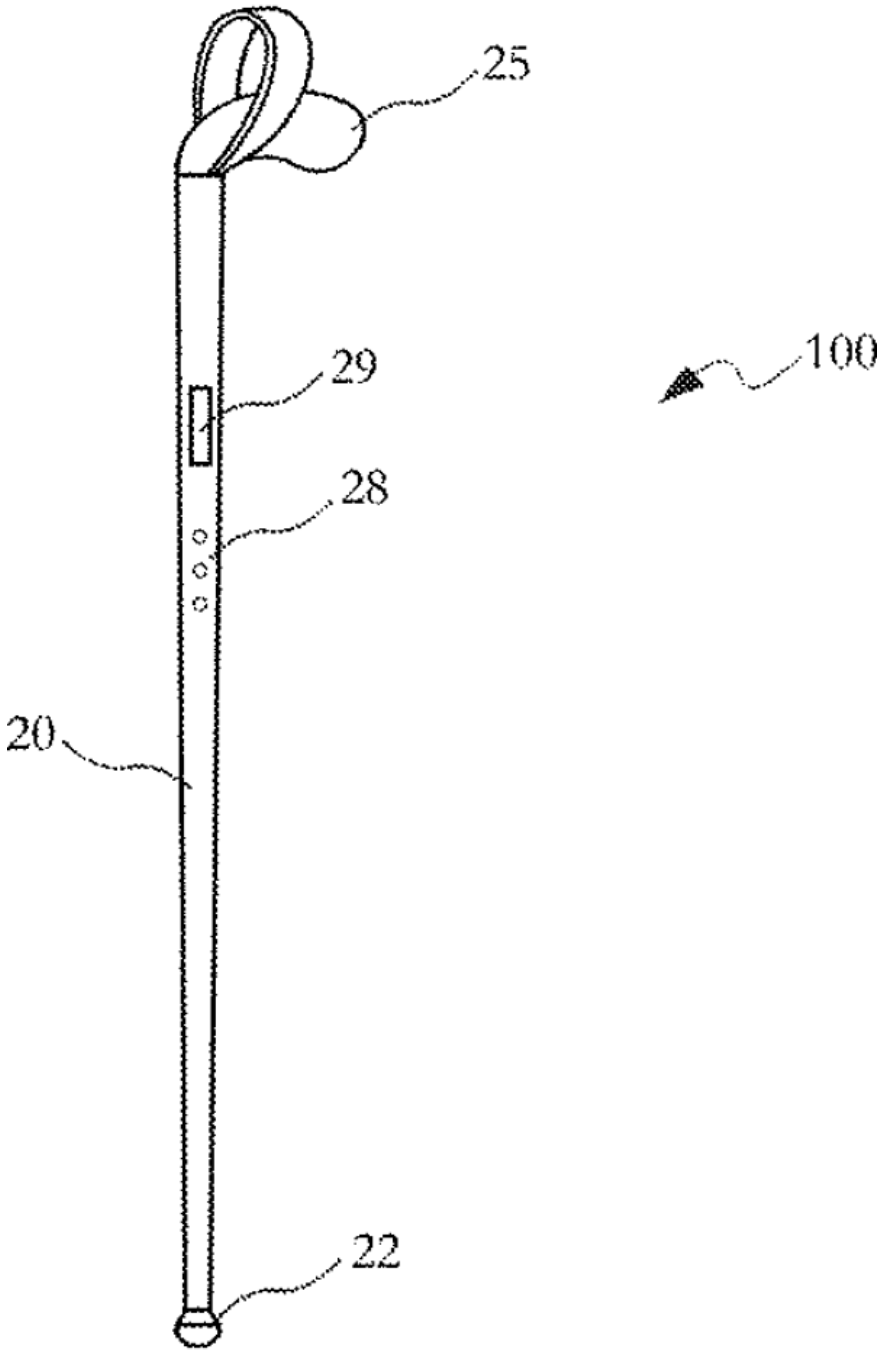
Directional sensors (28)

GPS controls (29)

GPS-enabled walking stick (100)

Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - Bluetooth is a wireless technology standard for exchanging data over short distances from fixed and mobile devices.

Drawing:



Derwent Class Code(s): P24 (Hand, travelling articles, brushes); S02 (Engineering Instrumentation, recording equipment, general testing methods); W01 (Telephone and Data Transmission Systems); W06 (Aviation, Marine and Radar Systems)

Derwent Manual Code(s): S02-B08C; W01-A06C4; W06-A03A5R

IPC: A45B-003/00; G01C-021/20; G01S-019/14; H04M-001/21; H04W-004/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2017006981-A1	12 Jan 2017	A45B-003/00	201707	Pages: 3	English

Application Details and Date:

US2017006981-A1	US796155	10 Jul 2015

Priority Application Information and Date:

US796155	10 Jul 2015

Registro 2 de 42

Patent Number(s): IN201501820-I3

Title: Mobile communication device i.e. Braille based smartphone device, for visually impaired users, has Braille cell for generating Braille pattern data related to Braille patterns corresponding to characters constituting text data

Inventor Name(s): VIDIT; WAGHMARE A

Patent Assignee(s): WAGHMARE A (WAGH-Individual)

Derwent Primary Accession No.: 2016-72118D

Abstract: NOVELTY - The device has a touchscreen (1) provided with dots (2) engraved at a fixed spacing. Buttons e.g. cancel button (7), include specific signs engraved on the buttons. A Braille cell (9) includes six actuators in communication with a processor. A function performing unit is enabled to read text data including an email. The Braille cell sequentially generates the Braille pattern data related to the Braille patterns corresponding to the characters constituting the text data in synchronization with or in tandem with reading of the text data by the function performing unit.

USE - Mobile communication device i.e. Braille based smartphone device, for visually impaired users.

ADVANTAGE - The device allows the user to read the messages or text the messages faster by moving hand over the touch screen and feeling and identifying an actuator, thus reducing cost and making device compact.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of a mobile communication device.

Touchscreen (1)

Dots (2)

Delete button (4)

Cancel button (7)

Braille cell (9)

Drawing:

Derwent Class Code(s): P85 (Education, cryptography, adverts); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): W01-A04A2; W01-C01B3; W01-C01B8H; W01-C01D3C; W01-C01G6C; W01-C01G8S; W01-C01Q6A

IPC: G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
IN201501820-I3	11 Nov 2016	G09B-021/00	201679	Pages: 22	English

Application Details and Date:

IN201501820-I3	INMU01820	07 May 2015

Priority Application Information and Date:

INMU01820	07 May 2015

Registro 3 de 42

Patent Number(s): US2016335917-A1; US9536452-B2

Title: System for assisting visually impaired user using e.g. goggle, has lighting device processor for delivering processed mapping data for area of premises in which lighting device is located to user wearable device in response to request

Inventor Name(s): LYDECKER S H; RAMER D P; RAINS J C; AGGARWAL J

Patent Assignee(s): ABL IP HOLDING LLC (ABLI-Non-standard)

Derwent Primary Accession No.: 2016-70439E

Abstract: NOVELTY - The system (35) has a lighting device (37) in an area of premises (39) including a processor (47), a wireless communication transceiver (45), a light source (43), a memory (49) and a mapping sensor (44). The lighting device processor receives a request from a user wearable device (11) for processed mapping data for the area of the premises in which the lighting device is located. The processor delivers the processed mapping data for the area of the premises in which the lighting device is located to the user wearable device in response to the request.

USE - System for assisting visually impaired user using a user wearable device e.g. goggle and eyeglass (all claimed). Can also be used for smart watch, smart bracelet, smart armband, smart brooch or smartphone, smart fanny pack and smart clothing such as trouser, shirt, vest and collars.

ADVANTAGE - The system facilitates sensor or environment data such as traffic control signals, time of day, and weather, which can be collected by a lighting system and communicated to the user wearable device of visually disabled pedestrians, thus enhancing navigation of space for the visually disabled pedestrians in easy and safe manner.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for assisting visually impaired user

(2) a user wearable device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of a user wearable device in form of goggles or eyeglasses.

User wearable device (11)

System for assisting visually impaired user (35)

Lighting device (37)

Premises (39)

Light source (43)

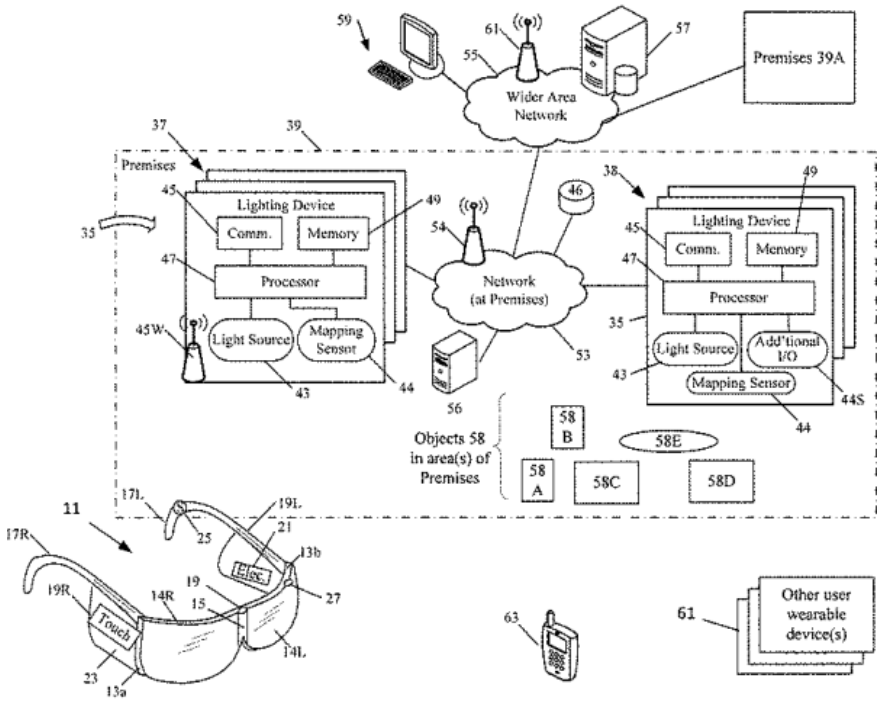
Mapping sensor (44)

Wireless communication transceiver (45)

Processor (47)

Memory (49)

Drawing:



Derwent Class Code(s): P81 (Optics); T01 (Digital Computers); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-C03C; T01-C08A; W04-Q01K; W04-V01

IPC: G02B-027/01; G06F-003/16; G06T-019/00; G09B-021/00; G09G-005/12; G10L-015/22

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2016335917-A1	17 Nov 2016	G09B-021/00	201678	Pages: 26	English
US9536452-B2	03 Jan 2017	G02B-027/01	201705		English

Application Details and Date:

US2016335917-A1	US711236	13 May 2015
US9536452-B2	US711236	13 May 2015

Priority Application Information and Date:

US711236	13 May 2015

Field of Search: None/

Cited Patent(s):

US9536452-B2	US20150259078-A1		
	US20150373482-A1		
	US20160035011-A1		
	US6320496-B1	FUJI XEROX CO LTD (XERF)	THOMAS S; LESTER; IIRIN
	US20140270796-A1		
	US20150036016-A1		
	US20150130355-A1		
	US6807478-B2	KONINK PHILIPS ELECTRONICS NV (PHIG)	GIANNOPOULOS D; WACYK I T
	US8520065-B2	BYTELIGHT INC (BYTE-Non-standard)	STAATS P; SUMNER R; RYAN D
	WO2007072285-A1	KONINK PHILIPS ELECTRONICS NV (PHIG)	KNIBBE E J

Cited Article(s):

US9536452-B2	Nakajima, Madoka, and Shinichiro Haruyama. “New indoor navigation system for visually impaired people using visible light communication.” EURASIP Journal on Wireless Communications and Networking 2013.1 (2013): 1-10.
	Hub, Andreas, Joachim Diepstraten, and Thomas Ertl. “Augmented Indoor Modeling for Navigation Support for the Blind.” CPSN. 2005.
	Ran, Lisa, Sumi Helal, and Steve Moore. “Drishti: an integrated indoor/outdoor blind navigation system and service.” Pervasive Computing and Communications, 2004. PerCom 2004. Proceedings of the Second IEEE Annual Conference on. IEEE, 2004.
	Yi, Chucai, et al. “Finding objects for assisting blind people.” Network Modeling Analysis in Health Informatics and Bioinformatics 2.2 (2013): 71-79.
	BrainPort Technologies, BrainPort® V100, http://www.wicab.com/en—us, printed May 8, 2015.
	Blind “See with sound”, BBC News, article by Lakshmi Sandhana, Oct. 7, 2003, http://news.bbc.co.uk/2/hi/science/nature/3171226.stm, printed May 8, 2015.
	By Alex Mindlin, Nolita, For Your Ears Only, New York Times, Dec. 9, 2007, printed on May 11, 2015.
	“Refreshable Braille Display” Wikippedia, the free encyclopedia, http://en.wikipedia.org/wiki/Refreshable—braille—display, printed May 13, 2015.

Registro 4 de 42

Patent Number(s): BR102014020520-A2

Title: Auxiliary urban mobility system for visually impaired persons in vehicle i.e. car, has transmitter module for transmitting signals and audio information to Wi-Fi receptor, where transmitter module is mounted on vehicle

Inventor Name(s): ANDRADE ARAUJO A A

Patent Assignee(s): CTI CENT TECNOLOGIA DA INFORMACAO RENATO (CTIT-Non-standard)

Derwent Primary Accession No.: 2016-51936T

Abstract: NOVELTY - The system has a transmitter module (1) for transmitting signals and audio information to a Wi-Fi receptor. The transmitter module is mounted on a vehicle. The transmitted information is received by a portable apparatus i.e. smartphone, which is equipped with the Wi-Fi receptor. The information is transmitted to different channels. A screen is connected to the portable apparatus. A public lighting network (3) of a street (4) is connected to the transmitter module. The street is provided with pedestrians (5).

USE - Auxiliary urban mobility system for visually impaired persons in a vehicle i.e. car.

ADVANTAGE - The transmitter module is mounted on the vehicle, thus simplifying mounting process of the vehicle and reducing manufacturing cost of the vehicle.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of an auxiliary urban mobility system.

Transmitter module (1)

User (2)

Public lighting network (3)

Street (4)

Pedestrians (5)

Drawing:

Derwent Class Code(s): P33 (Medical aids, oral administration); W01 (Telephone and Data Transmission Systems); W02 (Broadcasting, Radio and Line Transmission Systems); W05 (Alarms, Signalling, Telemetry and Telecontrol)

Derwent Manual Code(s): W01-A06C4E; W02-G02A2; W05-A02

IPC: A61H-003/06; G08B-003/10; H04H-020/53; H04W-004/02

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
BR102014020520-A2	19 Apr 2016	A61H-003/06	201668	Pages: 12	English

Application Details and Date:

BR102014020520-A2	BR10020520	21 Aug 2014

Priority Application Information and Date:

BR10020520	21 Aug 2014

Registro 5 de 42

Patent Number(s): US2016259027-A1

Title: Audio navigation system for providing visually impaired users with ability to navigate to stores in shopping mall, has controller for announcing navigation instructions for user to navigate from detected beacon to destination beacon

Inventor Name(s): SAID R

Patent Assignee(s): SENSIBLE INNOVATIONS LLC (SENS-Non-standard)

Derwent Primary Accession No.: 2016-56350Q

Abstract: NOVELTY - The system (25) has a controller (24) for receiving newly encountered beacon identifier (44) from a Bluetooth module in response to user movement along a beacon route. The controller announces navigation instructions for the user to navigate from an encountered beacon (42) to a next quadrant in an ordered list by a speaker (124). The controller announces the navigation instructions for the user to navigate from the detected beacon to a destination beacon by the speaker upon receiving a beacon identifier of the detected beacon in the destination quadrant.

USE - Audio navigation system for providing visually impaired users with ability to navigate to public places or landmarks i.e. stores in shopping mall, using beacons through a mobile electronic device e.g. smartphone or tablet computer. Can also be used for host computers, servers, workstations and network terminals.

ADVANTAGE - The system ensures that screens can match color of an icon in a menu to permit the visually impaired user to determine the current selected functionality from the color alone in an easy manner such that the system permits the visually impaired user to walk into a public place and hear name of points of interest in real time, thus providing greater independence and self-confidence for the user at low cost. The system utilizes graphics elements to maximize ability of users with poor vision to understand the information being conveyed and permits users with limited vision to be aware of surroundings and to be more active.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of components of an audio navigation system.

Controller (24)

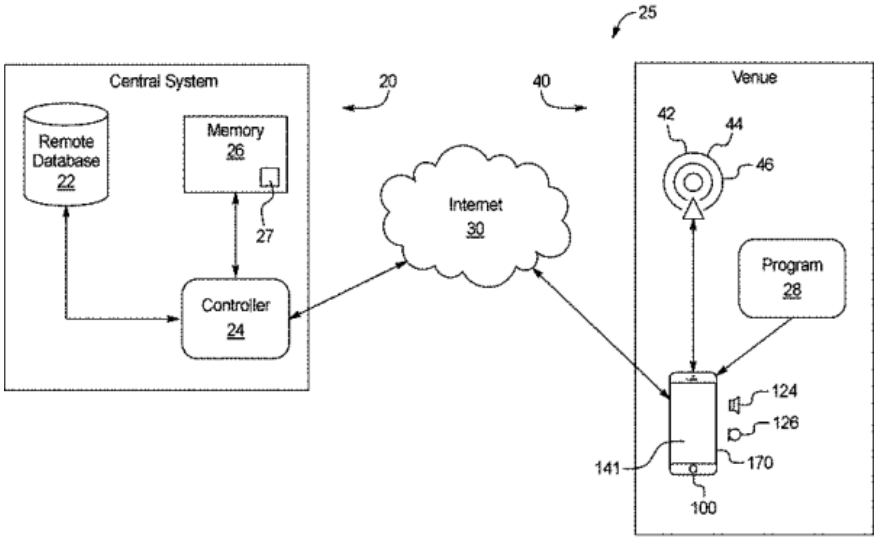
Audio navigation system (25)

Encountered beacon (42)

Newly encountered beacon identifier (44)

Speaker (124)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W06 (Aviation, Marine and Radar Systems)

Derwent Manual Code(s): T01-C08A; T01-F04; T01-J12D; T01-J21; T01-N02A3C; W01-A06C4; W01-C01D3C; W01-C01G8A; W01-C01G8S; W06-A01

IPC: G01C-021/20; G01S-001/08; G06F-003/16; H04W-004/00; H04W-004/02; H04W-004/04

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2016259027-A1	08 Sep 2016	G01S-001/08	201661	Pages: 29	English

Application Details and Date:

US2016259027-A1	US062942	07 Mar 2016

Further Application Details:

US2016259027-A1	Provisional	Application	US129232P

Priority Application Information and Date:

US129232P	06 Mar 2015
US062942	07 Mar 2016

Registro 6 de 42

Patent Number(s): US2016202761-A1; CN105786240-A

Title: Microfluidics three-dimensional touch screen used in smartphone, has image analyzer for analyzing data and metadata representing visually perceptible image and microfluidics transducer to produce selectively raised areas of surface

Inventor Name(s): BOSTICK J E; GANCI J M; RAKSHIT S K; TRIM C M; CORAHSTE S K; JANSI J M; TERROMUR C M

Patent Assignee(s): INT BUSINESS MACHINES CORP (IBMC-C); INT BUSINESS MACHINES CORP (IBMC-C)

Derwent Primary Accession No.: 2016-42706S

Abstract: NOVELTY - The touch screen has an image analyzer for analyzing the data and metadata representing visually perceptible image and has a logic for recognizing and classifying objects represented and arranged in an image by identified type and mapping tactile attributes to recognized objects and storing results of recognizing and classifying of objects as metadata. A microfluidics transducer (210) produces selectively raised areas of a surface to represent tactile attributes of recognized objects and the arrangement of the objects in the image.

USE - Microfluidics three-dimensional touch screen used in display devices such as personal digital assistants (PDAs), notebook, palm-top, tablet computers and wireless communication devices such as smart phones.

ADVANTAGE - The direct interaction with an image and selection and navigation and manipulation of one or more images by users having visual impairments are facilitated. The support enhanced provision of increased amounts of information beyond that contained in the image to persons without vision impairment through increased dimensionality and tactile sensation is provided. Pressure sensors allow accurate control of the height to which areas of the touch panel are raised and can also used to control hardness/softness or elasticity/compliance of objects portrayed in the image. The provision of image analysis processing provides object identification and classification into object types to the user in an efficient manner. The image comprehension is greatly enhanced by visually impaired or blind users as well as facilitating navigation and manipulation of the image in a natural and intuitive manner.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of conveying graphic information.

DESCRIPTION OF DRAWING(S) - The drawing shows the cross-sectional view of a section of a microfluidics panel structure.

Image display (100)

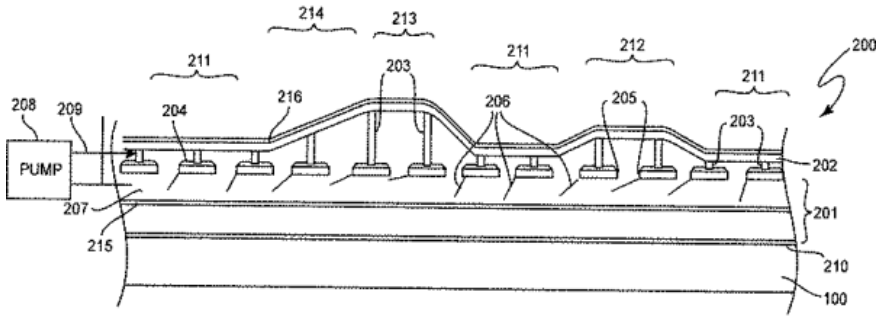
Microfluidic panel (200)

Aperture (205)

Pump (208)

Transducer (210)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J05B2C; T01-J10B1; T01-J10B2A; T01-J10B3; T01-M06A1; T04-F02A2; T04-F03; T04-H04; W01-C01B8H; W01-C01D3C; W01-C01G8S; W01-C01Q6A

IPC: G06F-003/01; G06F-003/041; G06F-003/044; G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2016202761-A1	14 Jul 2016	G06F-003/01	201649	Pages: 14	English
CN105786240-A	20 Jul 2016	G06F-003/041	201651		Chinese

Application Details and Date:

US2016202761-A1	US594497	12 Jan 2015
CN105786240-A	CN10013408	11 Jan 2016

Priority Application Information and Date:

US594497	12 Jan 2015

Cited Patent(s):

US2016202761-A1 US20160140249-A1

Registro 7 de 42

Patent Number(s): US2016173689-A1; US9438731-B2

Title: Emergency portal and dispatch system for receiving emergency 9-1-1 portal and application from emergency event reporter device, has unit for selectively routing possible abandoned call to one of computer aided dispatch system or module

Inventor Name(s): KLABAN T M

Patent Assignee(s): TOOLS 400 INC (TOOL-Non-standard)

Derwent Primary Accession No.: 2016-371167

Abstract: NOVELTY - The system (100) has a computer aided prioritization (CAP) system unit (144) in communication with a computer aided dispatch (CAD) system (112) and a computer aided event module (CAEM) (146) including an abandoned call processing method (ACPM), and configured to receive a possible abandoned call for an emergency event, monitor the possible abandoned call for an first automated monitoring period, determine whether the possible abandoned call includes an audible voice, and selectively route the possible abandoned call to one of the CAD system or CAEM according to the determination.

USE - Emergency portal and dispatch system for receiving an emergency 9-1-1 portal and application from an emergency event reporter device handling different events by needs and mental/physical handicap people by a communication device. Uses include but are not limited to a tablet computer, laptop computer, desktop computer, and smartphone such as cell phone, VoIP phone, and public switched telephone network (PSTN) phone for use during handling medical, accident, fire, child abduction, missing person, domestic violence, assault, robbery, hit and run, storm/property damage, vandalism, loud noise, gang activity, shots fired, riot, burglary, rape, stolen vehicle, stolen property, and suspicious persons/activity by hearing impaired, visually impaired, mentally impaired, loss of limbs, eye sight, special needs child, physically impaired or young child.

ADVANTAGE - The system performs operations by shifting responsibility onto the caller, business or reporting third-party to electronically provide a priority of the call, a type of emergency, and pertinent information to a dispatch center, so that the emergency dispatcher can dispatch an appropriate first responder in a quick and efficient manner. The system adopts an emergency priority dispatch architecture so as to provide a priority and a type of emergency to dispatch as part of an emergency request or during the establishment of the emergency call for a caller without the need to obtain additional queries for additional information from the dispatch center. The system provides a unified interface that allows prioritization and categorization of dispatch requests with the additional ability of providing and aggregating alarm location, contact information, telematics data, video feeds, pre-plans, photos and relevant data to minimize emergency dispatcher involvement and cutting the time to dispatch the appropriate first responders.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for receiving an emergency 9-1-1 portal and application from an emergency event reporter device

(2) a non-transitory computer readable medium storing instructions to perform a method for receiving an emergency 9-1-1 portal and application from an emergency event reporter device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a system for implementing an emergency portal and dispatch system configured to handle emergency events.

Emergency portal and dispatch system (100)

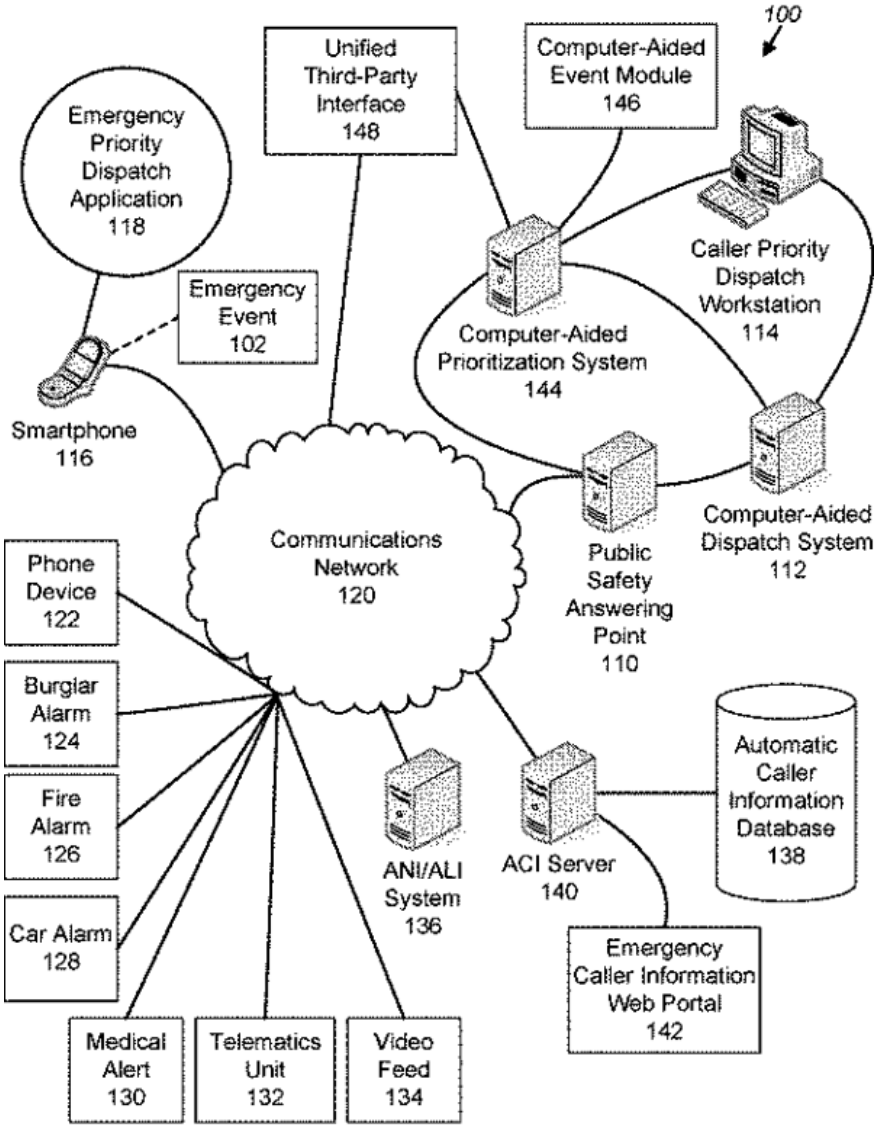
CAD system (112)

Communication network (120)

CAP system unit (144)

CAEM (146)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J07B; T01-J07D1; T01-J15X; T01-N01E; T01-N02B1F; T01-N02B2B; T01-S03; W01-A06C4; W01-C01D3C; W01-C01G6E; W01-C01G8S

IPC: H04M-003/51; H04W-004/02; H04W-004/22; G06N-005/02; H04M-011/04

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2016173689-A1	16 Jun 2016	H04M-003/51	201644	Pages: 27	English
US9438731-B2	06 Sep 2016	H04M-011/04	201659		English

Application Details and Date:

US2016173689-A1	US049695	22 Feb 2016
US9438731-B2	US049695	22 Feb 2016

Further Application Details:

US2016173689-A1	CIP of	Application	US828175
US2016173689-A1	Div ex	Application	US608141
US2016173689-A1	Div ex	Patent	US9112996
US2016173689-A1	CIP of	Patent	US9270824
US9438731-B2	CIP of	Application	US828175

US9438731-B2	Div ex	Application	US608141
US9438731-B2	Div ex	Patent	US9112996
US9438731-B2	CIP of	Patent	US9270824

Priority Application Information and Date:

US608141	10 Sep 2012
US049695	22 Feb 2016

Cited Patent(s):

US9438731-B2	US20070015489-A1		
	US20090010398-A1		
	US20100056099-A1		
	US20100166154-A1		
	US20110258266-A1		
	US20120196557-A1		
	US20120196558-A1		
	US8908835-B1	VERIZON PATENT & LICENSING INC (VEZN)	ROBBINS D C
	US5630209-A	ALCATEL SEL AG (COGE)	WIZGALL M; KUTTNER A; OHNSORGE H
	US20020057764-A1		
	US20030194061-A1		
	US20060030298-A1		
	US20070121799-A1		
	US20080101224-A1		
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	US20100003952-A1		
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	US20100003960-A1		
	US20100004950-A1		
	US20100195805-A1		
	US20100215153-A1		
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	US20110009086-A1		
	US20110058659-A1		
	US20110064205-A1		
	US20110105076-A1		
	US6370234-B1	KROLL FAMILY TRUST (KROL-Non-standard)	KROLL M W
	US7177398-B2	INTRADO INC (INTR-Non-standard)	MEER S M; BRUENING G W; CIESLA L W; NELSON M J; SCHMIDT P R
	US7289024-B2	GENERAL MOTORS CORP (GENK)	SUMCAD A J; VELIU S S; KAMDAR H S
	US7764769-B2	POWERPHONE (POWE-Non-standard)	SALAFIA C M; TURK J E; SALAFIA P M; KOUTCHOUK F G
	US7944909-B2	FOUNDRY NETWORKS INC (FOUN-Non-standard)	JAMES A W

Cited Article(s):

US9438731-B2 Moore, Linda K., Emergency Commuications: The Future of 911; CRS Report for Congress (Jun. 16, 2009).

Registro 8 de 42

Patent Number(s): FR3030072-A1; CA2913708-A1; EP3035715-A1; US2016174038-A1; BR102015031433-A2

Title: Method for indicating proximity between detector device e.g. smartphone, and electronic payment terminal, involves determining indication of proximity between terminal and detector device, and generating sound and/or vibration signal

Inventor Name(s): MENARDAIS M; MARSAUD T

Patent Assignee(s): CIE IND & FINANCIERE ING INGENICO SA (FINA-Non-standard); INGENICO GROUP (INGE-Non-standard)

Derwent Primary Accession No.: 2016-365087

Abstract: NOVELTY - The method involves receiving a signal sent out by an communication device to be detected i.e. electronic payment terminal (10), and determining, from the received signal, an indication of proximity between the electronic payment terminal and a detector device e.g. smartphone (11). A sound signal and/or vibration signal representing the determined indication of proximity is generated (12), and the generated sound and/or vibratory signal is transmitted (13), where the received signal is a radio signal that corresponds to a Bluetooth low-energy type signal.

USE - Method for indicating proximity between a detector device e.g. smartphone or electronic card case, and an electronic payment terminal.

ADVANTAGE - The indication of proximity between the electronic payment terminal and the detector device e.g. smartphone, is determined, and the sound signal and/or vibration signal representing the indication of proximity is generated and transmitted, thus allowing a visually impaired user carrying a smartphone and wishing to make a payment with the electronic payment terminal to benefit from the indication of proximity between the smartphone and the electronic payment terminal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a proximity indicating module

(2) a computer program for indicating proximity between a detector device and an electronic payment terminal

(3) a computer-readable recording medium recording a computer program for indicating proximity between a detector device and an electronic payment terminal.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method for indicating proximity. '(Drawing includes non-English language text)'

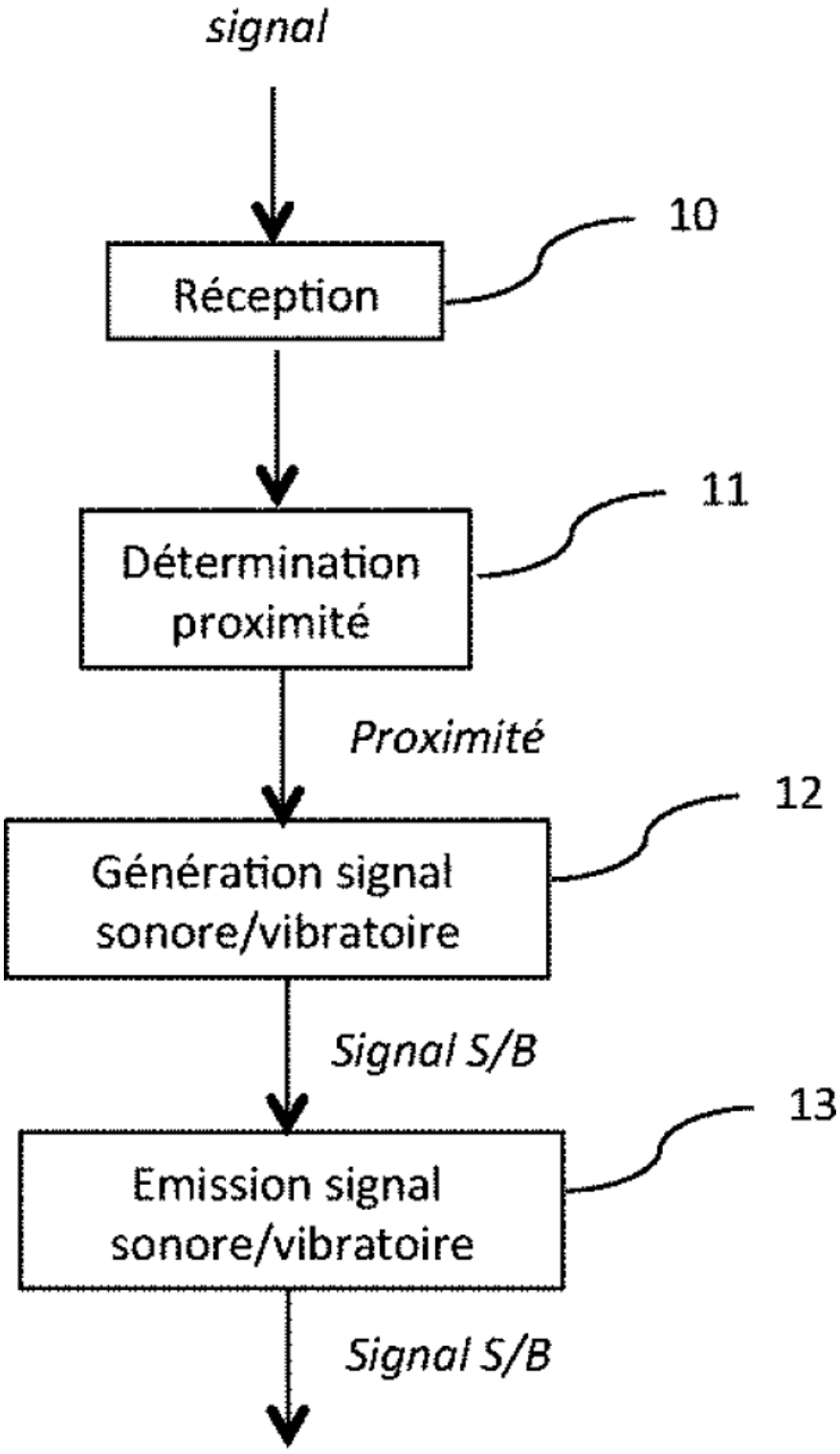
Step for receiving a signal sent out by an electronic payment terminal (10)

Step for determining, from the received signal, an indication of proximity between the electronic payment terminal and a detector device (11)

Step for generating a sound signal and/or vibration signal representing the determined indication of proximity (12)

Step for transmitting the generated sound and/or vibratory signal (13)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-C02B; T01-S03; W01-C01D3C; W01-C01G8S

IPC: G06F-003/03; G06Q-020/32; G08B-021/18; H04B-001/3827; H04B-005/00; G06K-019/00; G06K-019/07; G06K-019/077; G06K-007/00; G06K-007/10; G07F-007/08; H04L-029/08; H04M-001/247; H04M-001/725; H04W-004/00; H04W-004/02; G08B-003/10; G08B-006/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
FR3030072-A1	17 Jun 2016	G06F-003/03	201642	Pages: 24	French
CA2913708-A1	16 Jun 2016	G08B-021/18	201642		English
EP3035715-A1	22 Jun 2016	H04W-004/02	201642		French
US2016174038-A1	16 Jun 2016	H04W-004/02	201642		English
BR102015031433-A2	09 Aug 2016	G06K-019/07	201669		English

Application Details and Date:

FR3030072-A1	FR062522	16 Dec 2014
CA2913708-A1	CA2913708	01 Dec 2015
EP3035715-A1	EP197100	30 Nov 2015

US2016174038-A1	US971328	16 Dec 2015
BR102015031433-A2	BR10031433	15 Dec 2015

Priority Application Information and Date:

FR062522	16 Dec 2014

Designated States:
EP3035715-A1:
(Regional): AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MA; MC; MD; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR

Cited Patent(s):

FR3030072-A1	GB2356073-A		
	US20020087268-A1		
	US20100159833-A1		
	US20130298208-A1		
	US20140361735-A1		
EP3035715-A1	EP533542-A1	ITT COMPOSANTS&INSTR (INTT); GEMPLUS ELECTRONICS (GEMP)	JANNIERE A
	EP565469-A1	INNOVATRON IND SA (INNO-Non-standard)	COLNOT C
	EP691625-A1	AT & T CORP (AMTT)	MANDELBAUM R; ZEMPOL K R
	GB2356073-A		
	US20020087268-A1		
	US20090121829-A1		
	US20100159833-A1		
	US20130298208-A1		
	US20140361735-A1		
US2016174038-A1	US20120258770-A1		
	US20130298208-A1		
	US20140361735-A1		
	US20150170133-A1		

Registro 9 de 42

Patent Number(s): ES2554825-A1; ES2554825-B1

Title: Intelligent equipment for identifying e.g. garment in dress street by blind people, has reader for reading information from label, where software is provided for reproducing information on clothing accessory or label

Inventor Name(s): BOTEY J M

Patent Assignee(s): NAYCO MANAGEMENT SL (NAYC-Non-standard)

Derwent Primary Accession No.: 2016-21234L

Abstract: NOVELTY - The equipment (1) has an electronic label (2) located in a garment and/or clothing accessory (3), where the label obtains specific information of the garment and/or clothing accessory and. A reader (5) reads the information from the label. A specific software i.e. APP, is provided for reproducing information on the clothing accessory or the label (2). An electronic device (4) e.g. smartphone and tablet, is provided to show information of the label in visual way through screen, where the label and reader of the electronic device utilizes NFC technology of wireless communication.

USE - Intelligent equipment for identifying a garment and/or clothing accessory in a dress street by a blind people and a visually impaired person. Uses include but are not limited to an underwear, purses, gloves, caps, shoes, fashionable products and T-shirts (from drawings) .

ADVANTAGE - The label obtains the specific information of the garment and/or clothing accessory, and the reader reads the information from the label so as to easily identify the garment and/or clothing accessory in the dress street by a blind people and a visually impaired person.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a garment and/or clothing accessory identifying method.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic perspective view of an intelligent equipment for identifying a garment and/or clothing accessory in a dress street.

Intelligent equipment for identifying garment and/or clothing accessory (1)

Electronic label (2)

Garment and/or clothing accessory (3)

Electronic device (4)

Reader (5)

Drawing:

Derwent Class Code(s): T01 (Digital Computers); T05 (Counting, Checking, Vending, ATM and POS Systems); W01 (Telephone and Data Transmission Systems); W02 (Broadcasting, Radio and Line Transmission Systems); W05 (Alarms, Signalling, Telemetry and Telecontrol)

Derwent Manual Code(s): T01-J08A; T05-H01; W01-A07H2N; W02-C02; W02-G05A; W02-G05B; W05-A01

IPC: G07F-001/00; G08B-001/08

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
ES2554825-A1	23 Dec 2015	G07F-001/00	201635	Pages: 13	Spanish
ES2554825-B1	23 Dec 2015	G07F-001/00	201663		Spanish

Application Details and Date:

ES2554825-A1	ES031296	10 Sep 2015
ES2554825-B1	ES031296	10 Sep 2015

Priority Application Information and Date:

ES031296	10 Sep 2015

Cited Patent(s):

ES2554825-A1	ES2296537-A1	GEMA ACTIVE BUSINESS SOLUTIONS SL (GEMA-Non-standard)	PALLARES NADAL S; ORTIZ LOPEZ J
	ES2324085-A1	UNIV MALAGA (UYMA-Non-standard)	DEL TORO LASANTA J C; FERNANDEZ CARMONA M; FERNANDEZ ESPEJO B; SANCHEZ TATO M I; SANDOVAL HERNANDEZ F; URDIALES GARCIA C
	ES2367613-A1	AIFOS SOLUTIONS SL (AIFO-Non-standard)	JANE RIBERA E; XIOL FORET J
	ES2430848-T3	APPLE INC (APPY)	BLUMENBERG C; CHRISTIE G N; MATAS M
	ES1077977-U		

Registro 10 de 42

Patent Number(s): DE202015005626-U1

Title: Software supported application for visual impairment correction in e.g. mobile terminal, is executed in mobile terminal for balancing visual impairment of user and for vision correction for user

Patent Assignee(s): STRAUSS A (STRA-Individual)

Derwent Primary Accession No.: 2016-17602K

Abstract: NOVELTY - The software supported application is executed in a mobile terminal for balancing a visual impairment of a user and for vision correction for the user.

USE - Software supported application for use in a mobile terminal, for correcting visual impairment of a user. Uses include but are not limited to a notebook, a tablet, a smartphone, a computer, and an e-book reader.

ADVANTAGE - The application allows the eyesight of the visually impaired user to be adjusted, so as to allow the user to see content clearly on a screen of the mobile terminal.

Drawing:

Derwent Class Code(s): P81 (Optics); T01 (Digital Computers); T04 (Computer Peripheral Equipment)

Derwent Manual Code(s): T01-J10B1; T01-M06A1; T04-H03D

IPC: G02B-007/28; G06T-005/00; G09F-009/00; G09G-005/373

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
DE202015005626-U1	24 Mar 2016	G09G-005/373	201623	Pages: 2	German

Application Details and Date:

DE202015005626-U1	DE20005626	13 Aug 2015

Priority Application Information and Date:

DE20005626	13 Aug 2015

Registro 11 de 42

Patent Number(s): US2016063893-A1; WO2016037195-A1

Title: Portable electronic apparatus e.g. wearable eye glass for facilitating remote assistance for e.g. partially or totally blind persons, has processor coupled to power source, and output device for outputting information to user based on data

Inventor Name(s): BOCK L; CHANG Y; KANUGANTI S

Patent Assignee(s): AIRA TECH CORP (AIRA-Non-standard)

Derwent Primary Accession No.: 2016-14404U

Abstract: NOVELTY - The apparatus has a processor operatively coupled to a power source, a video coding device, a location sensor, an input device and a wireless communication circuitry and configured to receive input corresponding to activation of a guidance mode, activate guidance mode and generate and send a guidance request in response to receiving the input. Compressed video data and location data are transmitted to a device by using the wireless communication circuitry in guidance mode. An output device outputs information to a user based on the guidance feedback data.

USE - Portable electronic apparatus e.g. wearable eye glass, wearable watch, fitness tracker or internet-of-things (IoT) device, and personal device such as mobile smartphone and mobile tablet for facilitating live remote assistance for visually-impaired users e.g. partially or totally blind persons, deaf or hard-of-hearing persons, or persons with a combination of blindness and deafness, in conditions e.g. head injury, glaucoma, retinal detachment, hypertensive retinotherapy, cataract, age-related macular degeneration, diabetic retinopathy, retinal vascular occlusion, stroke overview, optic neuritis, chlorine poisoning, strabismus, intracranial hemorrhage, and vertebrobasilar circulatory disorder, for providing external services e.g. transportation service in foreign country, shopping service, or restaurant service and utility service (all claimed). Can also be used for providing assistance for reading documents such as letters, bills, bank-statements, medical reports, pill bottles, business cards, and in social media such as posting to facebook (RTM: online social networking service), twittter (RTM: online social networking service), or instagram (RTM: online mobile photo-sharing, video-sharing, and social networking service).

ADVANTAGE - The apparatus facilitates live remote assistance for visually-impaired users by sending video data and sensor data to an agent device by a server, so that the agent device can provide content for display on an agent interface and the agent can view the agent interface, and assist the user in real time through audio instructions or

other feedback for a person if a local language is not learned by the person or if the person is in a foreign country. The person can be directed or instructed to walk along path including crossing the street upon pressing a walk button, when a walk light is illuminated. The person is instructed to turn to face a 2'O clock position so as to avoid construction work and other obstacles, to account for a speeding truck.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a computer-readable memory comprising instructions to perform a method for facilitating remote assistance for visually-impaired users

(2) a system for facilitating remote assistance for visually-impaired users

(3) a computer-implemented method for providing remote assistance for visually-impaired users.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view illustrating a scene during application.

Wearable device (120)

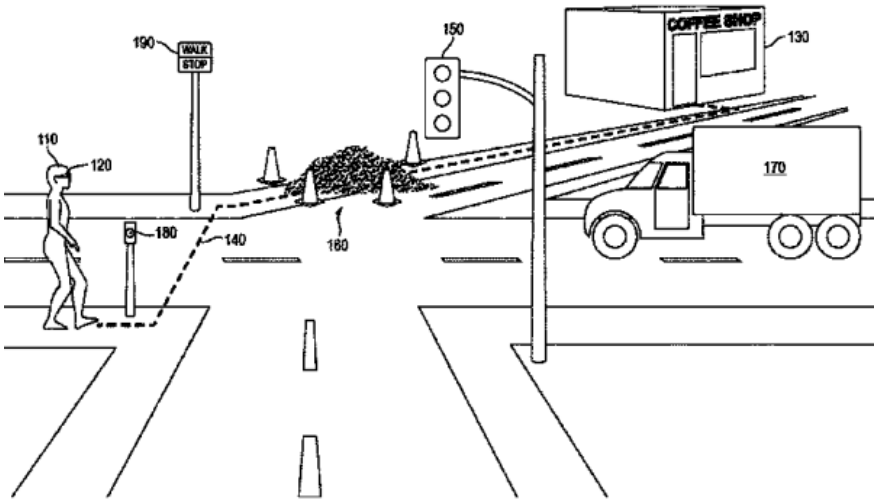
Destination (130)

Path (140)

Traffic signal (150)

Walk light (190)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W02 (Broadcasting, Radio and Line Transmission Systems); W04 (Audio/Video Recording and Systems); X27 (Domestic Electric Appliances)

Derwent Manual Code(s): T01-C03C; T01-D02; T01-J10D; T01-J30D; T01-N01A2D; T01-N01B3; T01-N01D1; T01-N01D3; T01-N01E; W01-C01D3C; W01-C01G8S; W02-F01F; W02-F01M; W04-X03G4; X27-A03

IPC: G09B-021/00; H04N-007/18

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2016063893-A1	03 Mar 2016	G09B-021/00	201618	Pages: 47	English
WO2016037195-A1	10 Mar 2016	H04N-007/18	201619		English

Application Details and Date:

US2016063893-A1	US853548	14 Sep 2015
WO2016037195-A1	WOUS050012	14 Sep 2015

Further Application Details:

US2016063893-A1	Provisional	Application	US045300P

Priority Application Information and Date:

US045300P	03 Sep 2014
US853548	14 Sep 2015

Designated States:
WO2016037195-A1:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IR; IS; JP; KE; KG; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SA; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
(Regional): BW; GH; GM; KE; LR; LS; MW; MZ; NA; RW; SD; SL; ST; SZ; TZ; UG; ZM; ZW; EA; AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; OA

Cited Patent(s):

WO2016037195-A1	US20080170118-A1
	US20100245583-A1
	US20100302980-A1
	US20110072479-A1

Registro 12 de 42

Patent Number(s): US2015302774-A1; IN201400481-I3

Title: User device for visually impaired users, has touch screen for receiving touch input from user, where touch screen presents touch-input interface for braille input comprising input regions defined by and separated by input region boundaries

Inventor Name(s): DAGAR S

Patent Assignee(s): DAGAR S (DAGA-Individual); DAGAR S (DADA-Individual)

Derwent Primary Accession No.: 2015-64142P

Abstract: NOVELTY - The device (100) has a touch screen (110) for receiving a touch input from a user. The touch screen presents a touch-input interface (115) for a braille input comprising a set of input regions (116) defined by and separated by input region boundaries (117). The touch-input interface is provided for six-dot braille input, and comprises six rectangular input regions in an arrangement of rows and columns with the input regions abutting at adjacent input region boundaries. An input guide is coupled over a portion of the touch screen including physical portions.

USE - User device for visually impaired users. Uses include but are not limited to a smartphone, a tablet computer, a personal data assistant, a gaming device, a laptop computer, a desktop computer, a kiosk device and a smartwatch.

ADVANTAGE - The device has a portal region that allows a user to maintain contact with the touch screen when selecting non-adjacent input regions and avoid selecting region.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for providing a device user interface for visually impaired users and receiving touch-based user input through an interface.

DESCRIPTION OF DRAWING(S) - The drawing shows a front view of a touch-input interface on a user device, where the touch-input interface comprises a set of input regions.

User device (100)

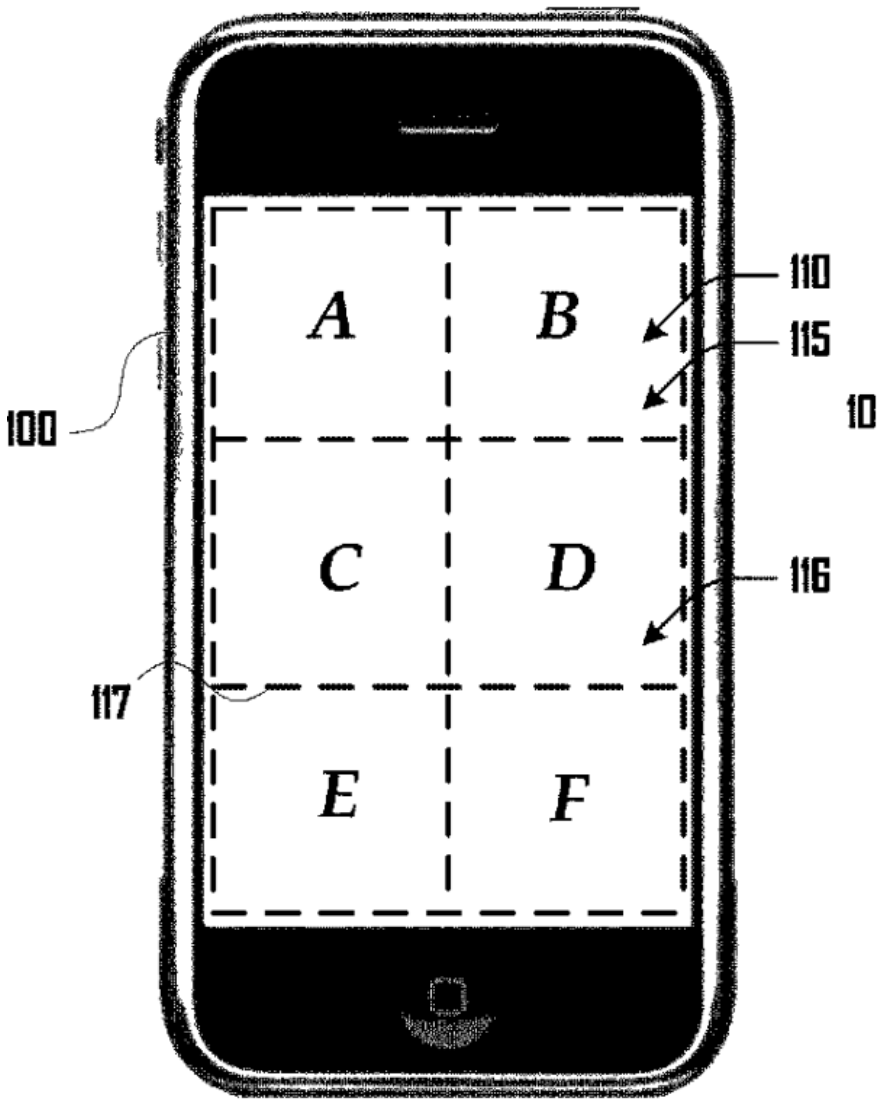
Touch screen (110)

Touch-input interface (115)

Input region (116)

Input region boundaries (117)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-J12B; T04-F02A2; T04-F02C; W04-X02

IPC: G06F-003/041; G06F-003/0488; G09B-021/00; G09B-021/04; G06F-001/16; G06F-003/033; G06F-003/038

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2015302774-A1	22 Oct 2015	G09B-021/04	201573	Pages: 15	English
IN201400481-I3	13 Nov 2015	G06F-003/033	201578		English

Application Details and Date:

US2015302774-A1	US608579	29 Jan 2015
IN201400481-I3	INMU00481	11 Feb 2014

Priority Application Information and Date:

INMU00481	11 Feb 2014

Registro 13 de 42

Patent Number(s): AU2015100780-A4; IN201501632-I3; CN106066687-A

Title: System for creating mental perception of surrounding for visually impaired user activates micro-motor on wearable glass based on interception and interpretation of visual matrix in smartphone for providing tactile feedback to user

Inventor Name(s): BHAT K A; KUNAL A B; BORCHARDT K A

Patent Assignee(s): TECH MAHINDRA LTD (TEMA-Non-standard); TECH MAHINDRA LTD (TEMA-Non-standard)

Derwent Primary Accession No.: 2015-44503K

Abstract: NOVELTY - The system has a smartphone (101) containing visual matrix of obstacle position and direction capture real-time images. Collision detection module which is installed on the smartphone and cloud server processes the captured images and maps the captured images to visual matrix. A wearable glass (103) which is worn by visually impaired user receives visual matrix from the smart phone wirelessly. Multiple micro-motors (104) are positioned on the glass for activation based on interception and interpretation of visual matrix and provide tactile feedback to the impaired user.

USE - System for creating mental perception of surrounding by capturing image through image capturing device such as smartphone camera (claimed) coupled to tactile

feedback around eye sockets for visually impaired user.

ADVANTAGE - The provision of tactic feet to the object position and the movement in the surrounding enables navigational aid for the visually impaired user and thereby creates a mental perception of the objects in the vicinity. The use of wireless technology for giving tactile feedback to the visually impaired individuals renders the user hand free. Thus, the wearable system is made compact, light-weight, portable and handy. The use of smart phone as source of communication and additional navigational inputs using the feedback enhances the user experience.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of providing tactile feedback to a visually impaired user.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram explaining operation of a system for creating mental perception of surrounding by giving tactile feedback to visually impaired user.

Image capturing device (101)

Bluetooth wireless communication (102)

Wearable glass (103)

Micro-motors (104)

Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The system having image capturing device such as camera communicates with a cloud server through long term evolution (LTE), fourth generation (4G), wireless fidelity(Wi-Fi), Bluetooth, global positioning system (GPS).

Drawing:

Derwent Class Code(s): P32 (Dentistry, bandages, veterinary, prosthesis); T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W05 (Alarms, Signalling, Telemetry and Telecontrol)

Derwent Manual Code(s): T01-J10B2; T01-N01E; T01-N02A3C; W01-C01C3E; W01-C01D3C; W01-C01G8; W01-C01P2; W05-A01

IPC: A61F-009/08; G06T-007/00; G08B-006/00; G06F-003/00; G06F-003/01

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
AU2015100780-A4	16 Jul 2015	G08B-006/00	201554	Pages: 20	English
IN201501632-I3	28 Oct 2016	G06F-003/00	201674		English
CN106066687-A	02 Nov 2016	G06F-003/01	201676		Chinese

Application Details and Date:

AU2015100780-A4	AU100780	10 Jun 2015
IN201501632-I3	INMU01632	22 Apr 2015
CN106066687-A	CN10400271	09 Jul 2015

Priority Application Information and Date:

INMU01632	22 Apr 2015

Registro 14 de 42

Patent Number(s): US2015193139-A1

Title: Three-stage method for executing preset function on electronic device e.g. smartphone, involves assessing smaller distance between current and initial contact points of operating unit and display, to execute device function

Inventor Name(s): KAPTELININ V

Patent Assignee(s): KAPTELININ V (KAPT-Individual)

Derwent Primary Accession No.: 2015-38670U

Abstract: NOVELTY - The method involves detecting contact between a user-controlled display operating unit such as finger or stylus and a touch-sensitive display at first stage. An initial contact point is registered (208) when the contact is detected. When uninterrupted contact between user-controlled unit and display is maintained, a distance between a current and initial contact pointS is assessed at second stage. A third stage is assessed, when the distance is greater than preset distance. The device function is executed (222) at third stage, when the distance is smaller than preset distance.

USE - Three-stage method for executing predetermined function on electronic device such as smartphone and tablet computer.

ADVANTAGE - A novel method of operating touch-sensitive displays are teached which is intended to make user interaction with such displays both safe and convenient. A more efficient transition of the user interface of a computing device is enabled from a locked state to an unlocked state. The object is activated automatically at the moment of transitioning to an unlock state. The selected object is activated by breaking contact with the display while maintaining contact with the display, can move the finger or stylus around the display. The visually impaired users are supported by tapping and sliding to produce voice and sound feedback about the screen objects touched by the user.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an apparatus for executing preset function on electronic device.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart illustrating the three-stage method for executing preset function on electronic device.

Step for presenting a touch sensitive display (204)

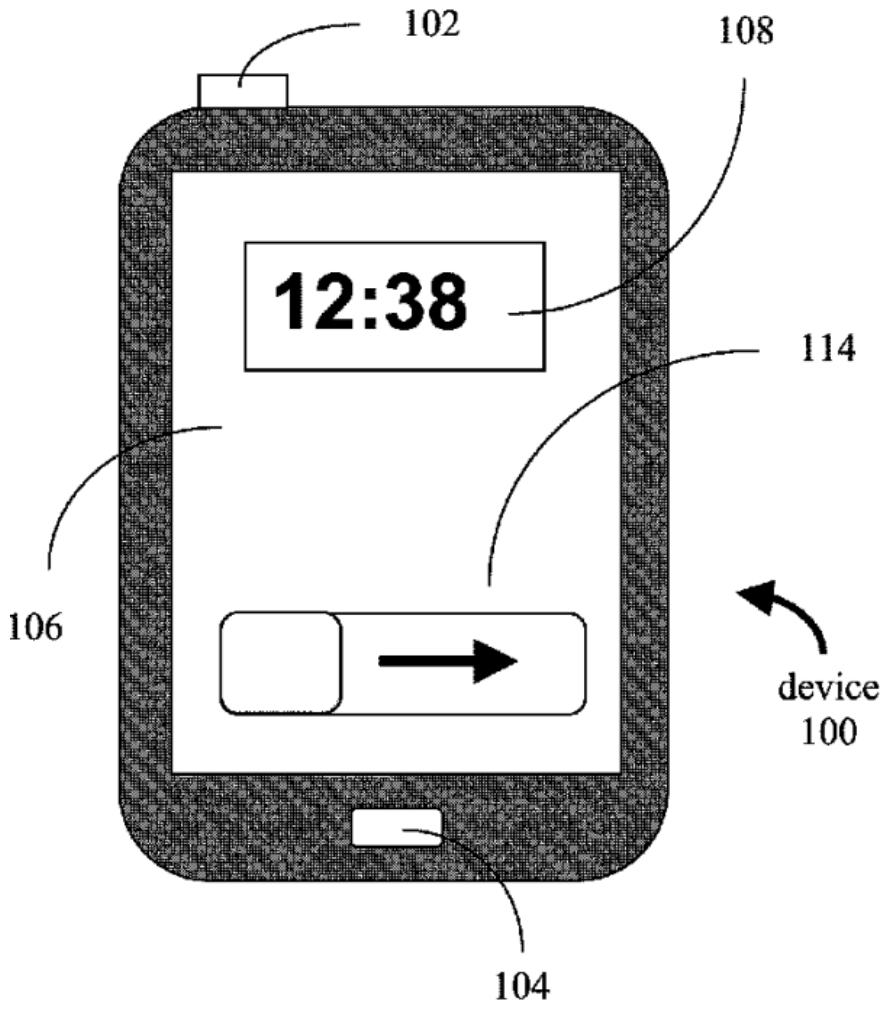
Step for registering initial contact point (208)

Step for registering location of current contact point (212)

Step for registering screen coordinates of current contact location (218)

Step for executing device function (222)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J12B; T01-J30A; W01-C01D3C; W01-C01G8A; W01-C01P2

IPC: G06F-003/044; G06F-003/0488

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2015193139-A1	09 Jul 2015	G06F-003/0488	201546	Pages: 14	English

Application Details and Date:

US2015193139-A1	US147501	04 Jan 2014

Priority Application Information and Date:

US147501	04 Jan 2014

Registro 15 de 42

Patent Number(s): DE102013021495-A1

Title: Information system for transmitting information between passengers and vehicles of public transport, has control box assigned to vehicle, which stands in connection with on-board computer of vehicle by data interface

Inventor Name(s): GERHARD M; PETERS J

Patent Assignee(s): GERHARD M (GERH-Individual)

Derwent Primary Accession No.: 2015-37639M

Abstract: NOVELTY - The information system has a control box (3) assigned to the vehicle, which stands in connection with the on-board computer (6) of the vehicle by a data interface. The control box is connected with a mobile display- and input device by a bi-directional, wireless data transmission connection. The mobile display and input device has an acoustic or tactile information output next to an optical display. The mobile display- and input device is a smart phone (1) or a mobile handset.

USE - Information system for transmitting information between passengers and vehicles of public transport.

ADVANTAGE - The information system has a control box assigned to the vehicle, which stands in connection with the on-board computer of the vehicle by a data interface, where the control box is connected with a mobile display- and input device by a bi-directional, wireless data transmission connection, and hence ensures an efficient information system, in which the control box is retrofitted and adapted for the public transport network and enables direct communication between vehicle and passenger. The mobile display- and input device reads the information for visually impaired and blind passengers.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of an information system.

Commercial smartphone (1)

Smart phone (1)

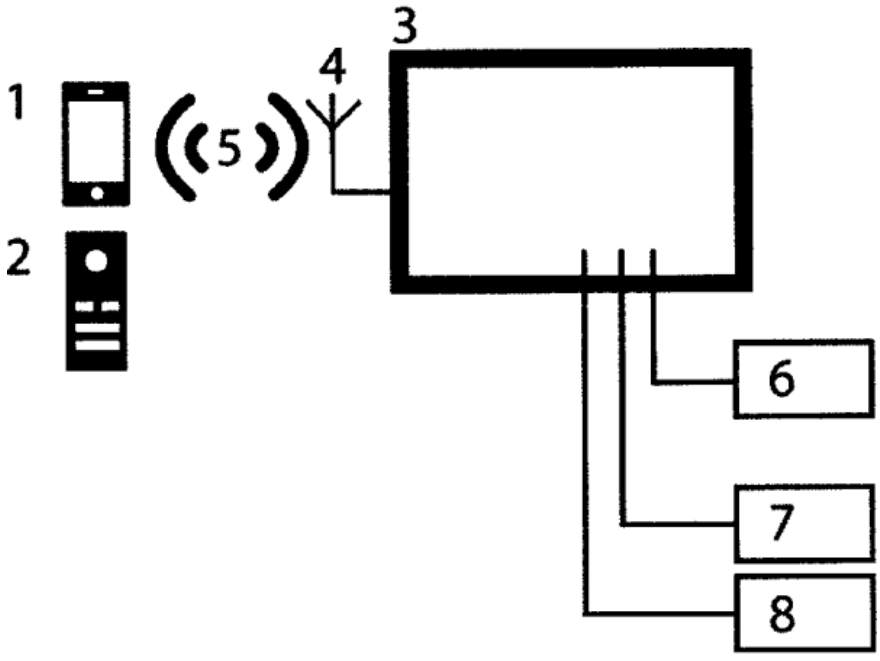
Control box (3)

Antenna (4)

On-board computer (6)

Vehicle electronics (7)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W05 (Alarms, Signalling, Telemetry and Telecontrol); X22 (Automotive Electrics)

Derwent Manual Code(s): T01-C03C; T01-J07D1; W01-A06C4; W01-C01P2; W05-A03; X22-K08

IPC: G08B-005/22; H04W-004/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
DE102013021495-A1	02 Jul 2015	G08B-005/22	201545	Pages: 6	German

Application Details and Date:

DE102013021495-A1	DE10021495	18 Dec 2013

Priority Application Information and Date:

DE10021495	18 Dec 2013

Registro 16 de 42

Patent Number(s): US2015125831-A1

Title: Hand-held electronic device e.g. smartphone, has pin array comprising pin assembly with pin head that includes fully extended state and fully retracted state, and pin array controller controlling electric motor

Inventor Name(s): CHANDRASHEKHAR N S; GANESAN S

Patent Assignee(s): CHANDRASHEKHAR N S (CHAN-Individual); GANESAN S (GANE-Individual)

Derwent Primary Accession No.: 2015-28332C

Abstract: NOVELTY - The device has depth sensing cameras for capturing simultaneous images. A pin array (70) comprises a pin assembly that comprises a pin head, where the pin head is height adjustable using an electric motor. The pin head includes a fully extended state and a fully retracted state. A pin array controller (71) controls the electric motor. The pin assembly comprises a micro stepper motor that rotatably controls a threaded rod. The threaded rod is secured in a threaded aperture in the pin head. A pin guide engages a groove in the pin head to prevent rotation of the pin guide.

USE - Hand-held electronic device e.g. smartphone and tablet.

ADVANTAGE - The device allows a user to feel the environment in front of the user, thus avoiding objects without the use of a cane, seeing eye dog or a companion. The device has a forward portion that is directed forward of the user for accurate representations of an area in front of the user. The device allows the entire pin array to form a smooth surface, as opposed to using an array of binary pins only fully extended or fully retracted. The device utilizes an audible system to alert the user and let the user take proper precautions while walking to avoid injury.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for providing tactile feedback.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a system for providing multiple features for a visually impaired user in a form of a handheld electronic device.

Depth sensing cameras (51)

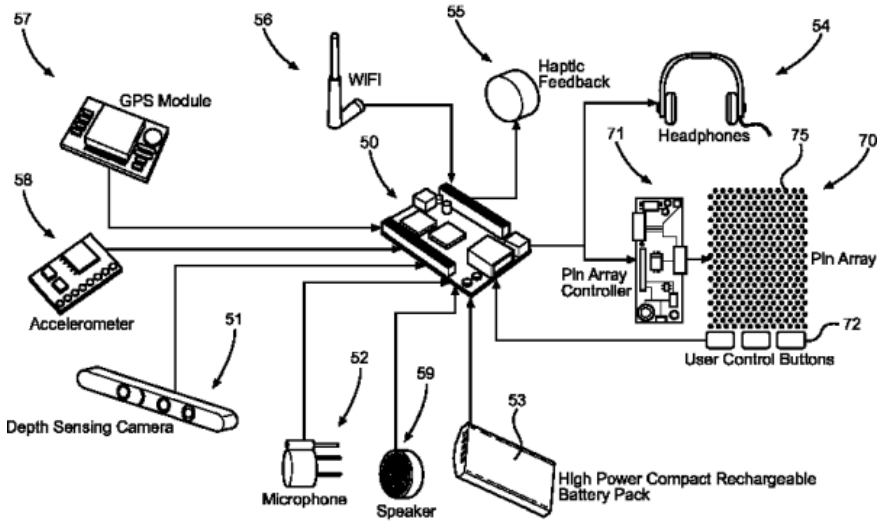
Microphone (52)

Speakers (59)

Pin array (70)

Pin array controller (71)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); V04 (Printed Circuits and Connectors); V06 (Electromechanical Transducers and Small Machines); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): V04-T; V06-N01; V06-N22; V06-U04E; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2015125831-A1	07 May 2015	G09B-021/00	201534	Pages: 11	English

Application Details and Date:

US2015125831-A1	US493480	23 Sep 2014

Further Application Details:

US2015125831-A1	Provisional	Application	US901398P

Priority Application Information and Date:

US901398P	07 Nov 2013
US493480	23 Sep 2014

Registro 17 de 42

Patent Number(s): US2015119108-A1; US9398144-B2

Title: Method for providing operating mode for blind users for operating e.g. smartphone, involves determining operation mode for mobile device automatically, and configuring device to transition from visually impaired mode to standard mode

Inventor Name(s): PHILBIN D A; CHIN J P; LI Y L

Patent Assignee(s): CELLCO PARTNERSHIP DBA VERIZON WIRELESS (VEZN-C); CELLCO PARTNERSHIP (VEZN-C)

Derwent Primary Accession No.: 2015-27244L

Abstract: NOVELTY - The method involves providing two modes of operation for a mobile device including a standard mode (101) and a visually impaired (VI) mode (103). A determination is made that an operation mode for the mobile device is provided between the standard mode and the VI mode automatically based on the mobile device powering-up from a low power state. The mobile device is configured to automatically transition from the VI mode to a standard mode in response to detection of a gaze directed toward the display screen.

USE - Method for providing an operating mode for visually impaired users i.e. blind users, for operating a mobile device (claimed) e.g. smartphone. Can also be used for providing an operating mode for a tablet computer and a personal digital assistant.

ADVANTAGE - The method enables operating the mobile device in the VI mode with a display screen of the mobile device turned-off by default, so that the mobile device provides enhanced haptic feedback in response to touch input from users when an activating event is detected by automatically determining a previous mode of operation before entering an idle state. The method enables causing a highly energy efficient audio-monitoring circuit to allow the mobile device to continuously monitor a microphone for voice commands uttered by a user to be powered such that users can control the mobile device using oral commands, thus enabling automatic transition from the standard mode to the VI mode to turn-off the display screen in response to automatically determine that the display screen can avoid distraction of the user when the mobile device operates in the standard mode.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a mobile device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram representing transitions between various modes of operation of a mobile device.

State diagrams (100, 150)

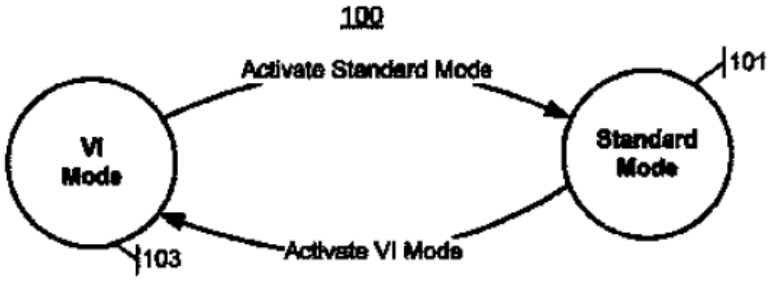
Standard mode (101)

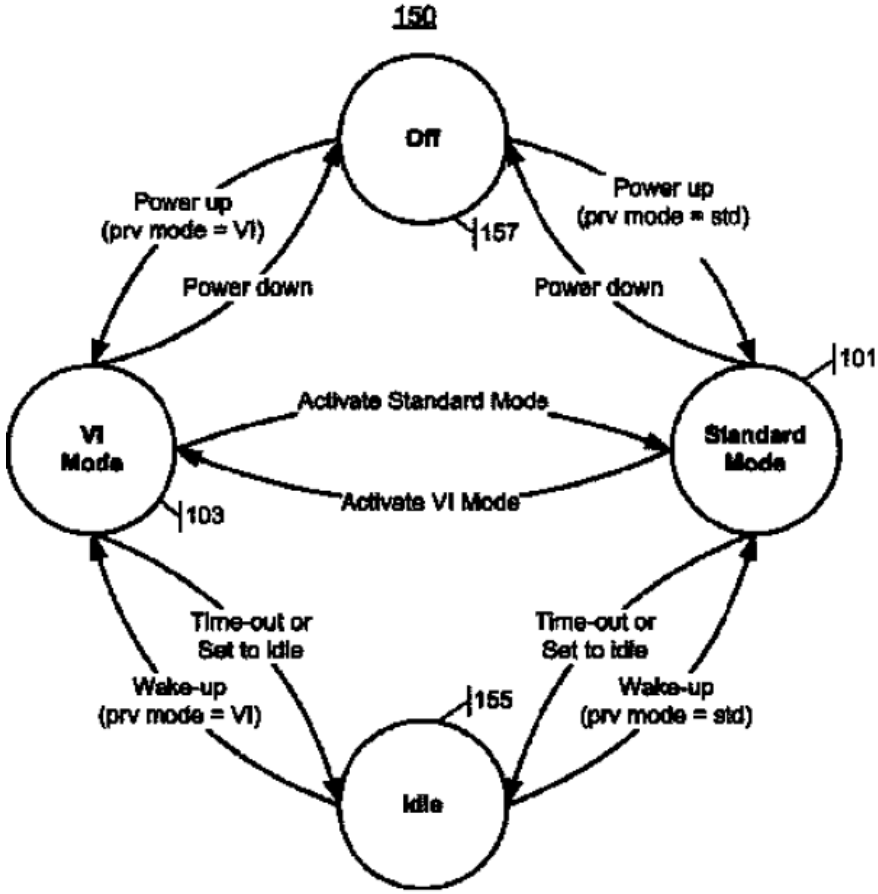
VI mode (103)

Idle state (155)

Powered-off state (157)

Drawing:





Derwent Class Code(s): W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): W01-A06C4; W01-C01B1B; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: H04M-001/725; H04W-052/02

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2015119108-A1	30 Apr 2015	H04M-001/725	201531	Pages: 17	English
US9398144-B2	19 Jul 2016		201648		English

Application Details and Date:

US2015119108-A1	US062445	24 Oct 2013
US9398144-B2	US062445	24 Oct 2013

Priority Application Information and Date:

US062445	24 Oct 2013

Cited Patent(s):

US2015119108-A1	US20100079508-A1
	US20130250825-A1
	US20140085221-A1
US9398144-B2	US20100079508-A1
	US20130250825-A1
	US20140085221-A1

Cited Article(s):

US9398144-B2 Verifying App Accessibility on iOS, Apple Developer, Apr. 2013 Apple Inc.; 17 pages.

Registro 18 de 42

Patent Number(s): US2014331189-A1; WO2014179321-A2; WO2014179321-A3

Title: Method for interacting with visually-impaired user of accessible self-service kiosk using e.g. interactive device, involves identifying command that is associated with gesture by computer processor, and responding to command by processor

Inventor Name(s): LEE S; DESELLEM A B; GEDRICH R

Patent Assignee(s): MORGAN CHASE BANK J P (MORG-Non-standard); MORGAN CHASE BANK J P (MORG-Non-standard)

Derwent Primary Accession No.: 2014-U25476

Abstract: NOVELTY - The method involves providing an accessible self-service kiosk (110) to enter a hearing-impaired accessibility mode for interacting with a user. A gesture made by the user is received using an imaging device. A database (160) is provided with a set of gestures, where commands associated with each of the set of gestures are accessed using a computer processor. A command that is associated with the gesture is identified using the processor, and the command is responded using the processor.

USE - Method for interacting with a visually-impaired of an accessible self-service kiosk using an interactive device. Uses include but are not limited to an airline check-in/reservation kiosk, a venue such as movie theater and sporting event ticket kiosks, a vending machine, a trade show information display, a restaurant ordering device and transportation ticket device, a smart phone, a phone, a tablet computer, a laptop/notebook computer, a google glass and an electronic-reading device.

ADVANTAGE - The method enables identifying command that is associated with the gesture using the computer processor, and responding to the command using the processor such that the kiosk can activate directional assistance feature/device to assist a user in reaching the desired kiosk feature.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a system including an accessible self-service kiosk.

Accessible self-service kiosk (110)

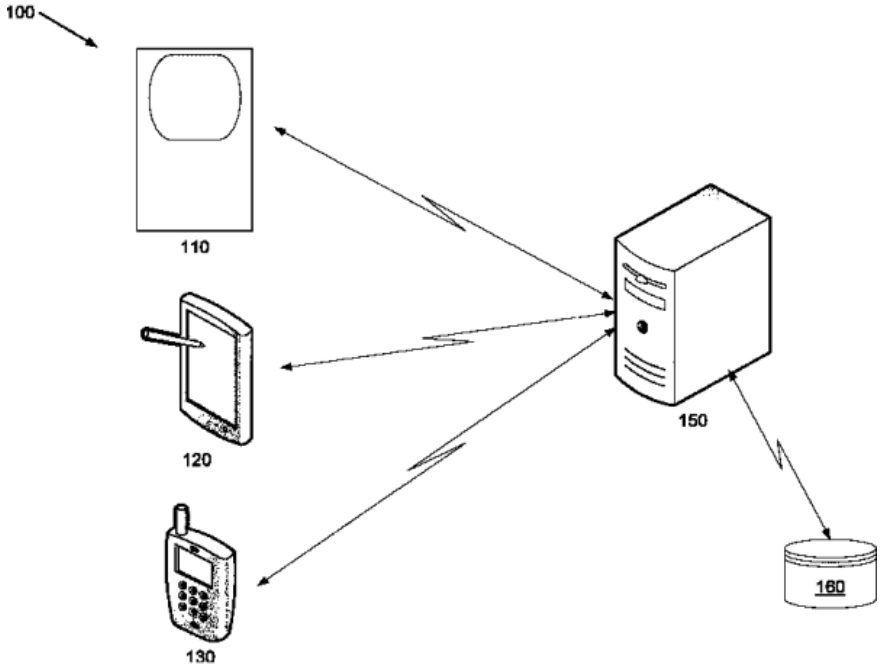
Portable electronic device (120)

Smartphone (130)

Server (150)

Database (160)

Drawing:



Derwent Class Code(s): T01 (Digital Computers)

Derwent Manual Code(s): T01-J05B4P; T01-J30D; T01-M06A1; T01-N01B; T01-N02A3C; T01-N03A2

IPC: G06F-003/0488; G06F-000/00; G06F-003/0481

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2014331189-A1	06 Nov 2014	G06F-003/0488	201475	Pages: 28	English
WO2014179321-A2	06 Nov 2014		201475		English
WO2014179321-A3	15 Jan 2015	G06F-003/0481	201506		English

Application Details and Date:

US2014331189-A1	US084373	19 Nov 2013

WO2014179321-A2	WOUS035886	29 Apr 2014
WO2014179321-A3	WOUS035886	29 Apr 2014

Further Application Details:

US2014331189-A1	Provisional	Application	US889333P
US2014331189-A1	Provisional	Application	US818731P
US2014331189-A1	CIP of	Application	US918190

Priority Application Information and Date:

US818731P	02 May 2013
US918190	14 Jun 2013
US889333P	10 Oct 2013
US084373	19 Nov 2013

Designated States:

WO2014179321-A2:

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

WO2014179321-A3:

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

Cited Patent(s):

US2014331189-A1	US20070003025-A1		
	US20100027765-A1		
	US20100245061-A1		
	US20110231194-A1		
	US20120286944-A1		
	US20140005484-A1		
	US7287009-B1	LIEBERMANN R (LIEB-Individual)	LIEBERMANN R
WO2014179321-A2	US20090003548-A1		
	US6421453-B1	INT BUSINESS MACHINES CORP (IBMC)	KANEVSKY D; MAES S H
	US7857207-B1	UNITED SERVICES AUTOMOBILE ASSOC (UNSE-Non-standard)	HOPKINS J C

Cited Article(s):

US2014331189-A1 Compact Oxford English Dictionary, 2005, Oxford University Press, Third Edition, p. 423

Registro 19 de 42

Patent Number(s): EP2784656-A1; WO2014157885-A1; KR2014118663-A; US2014298268-A1; CN104077038-A; US2016042166-A1; IN201503039-P3

Title: Menu interface providing method for lock screen of smartphone, involves displaying level of menu interface on lock screen, and providing level with menu items based on direction of drag input

Inventor Name(s): PARK Y; KANG N; KIM Y; BAE J; SOHN J; SHIN E; LEE K; LEE H; JIN Y; KIM D; LEE W; KANG N W; KIM D H; PARK Y G; JIN Y K; LEE W H; CHEN Y; KWAK B; RYU J; LEE C; LIM Y

Patent Assignee(s): SAMSUNG ELECTRONICS CO LTD (SMSU-C); SAMSUNG ELECTRONICS CO LTD (SMSU-C); SAMSUNG ELECTRONICS CO LTD (SMSU-C); SAMSUNG ELECTRONICS CO LTD (SMSU-C)

Derwent Primary Accession No.: 2014-R75476

Abstract: NOVELTY - The method involves receiving a touch input on a lock screen. A level of a menu interface in response to the touch input is displayed on the lock screen. A level is provided with multiple menu items. Drag input in a direction of one of the menus is received. Another level of the menu interface is displayed on the lock screen. The latter level is provided with other menu items based on a direction of a drag input. User selection with respect to one of the latter menu items is received. A function corresponding to the latter menu item is performed.

USE - Method for providing a menu interface on a lock screen. Uses include but are not limited to a cellular phone, smartphone, laptop computer, tablet personal computer (PC), e-book terminal, digital broadcasting terminal, personal digital assistant (PDA), portable multimedia player (PMP), navigation device and an MPEG 1 audio layer 3 (MP3) player.

ADVANTAGE - The method enables increasing user accessibility to a specific function and allowing the user to unlock the lock screen through two drag inputs and double-tap input to allow the device to quickly perform a specific application or function. The method efficiently provides a menu on a small screen. The sub menu is displayed on an edge part, so that the user can select the layer sub menus by slightly moving a touch tool toward the edge part, thus displaying sub menu without necessarily moving the touch tool on the edge part. The method allows visually impaired persons to easily access a specific menu.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a menu interface providing device comprising a user input unit

(2) a non-transitory computer-readable storage medium has a set of instructions to provide a menu interface on a lock screen.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart illustrating a menu interface providing method for a lock screen.

Step for receiving user touch input (S210)

Step for displaying multiple menus (S220)

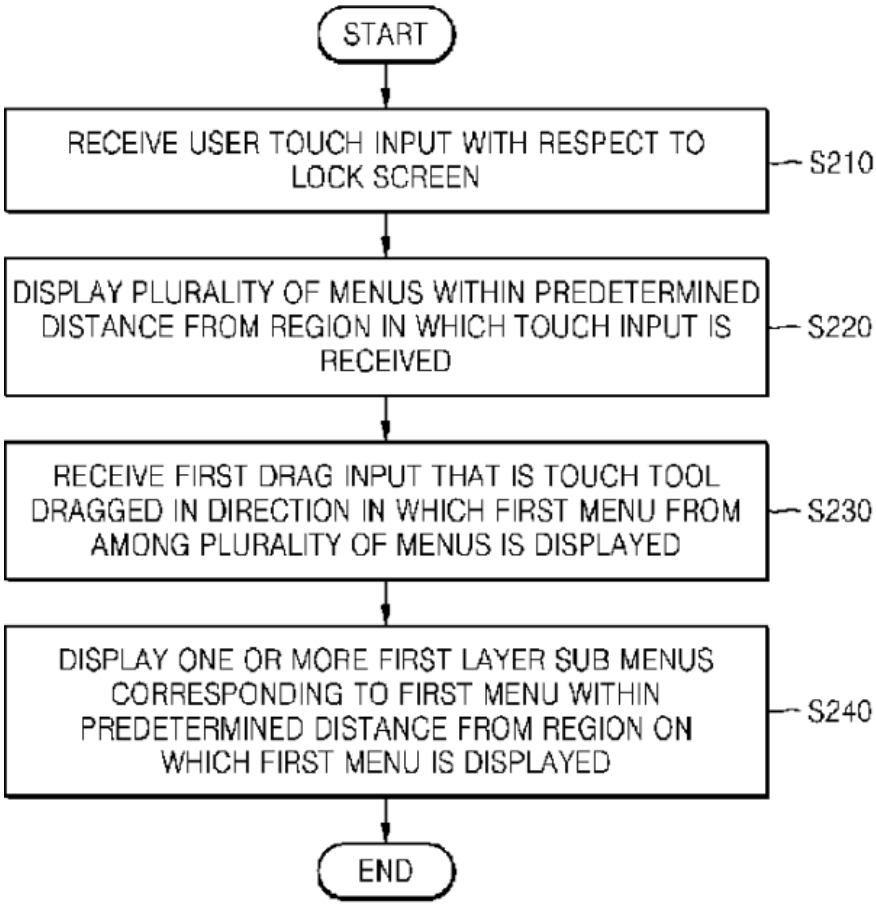
Step for receiving drag input (S230)

Step for displaying layer sub menus (S240)

Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The device adopts a short-range wireless communication unit comprising a Bluetooth communication unit, Bluetooth low energy (BLE) communication unit, wireless-fidelity (Wi-Fi) communication unit and a ZigBee communication unit.

Drawing:

FIG. 2



Derwent Class Code(s): T01 (Digital Computers)

Derwent Manual Code(s): T01-F04; T01-J10D; T01-J21; T01-S03

IPC: G06F-003/0482; G06F-003/0488; G06F-003/048; G06F-003/14; G06F-009/44; G06F-003/0484; G06F-003/0486; G06F-021/32

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP2784656-A1	01 Oct 2014	G06F-003/0488	201466	Pages: 64	English
WO2014157885-A1	02 Oct 2014	G06F-003/048	201466		English
KR2014118663-A	08 Oct 2014	G06F-003/048	201468		
US2014298268-A1	02 Oct 2014	G06F-003/0482	201481		English
CN104077038-A	01 Oct 2014	G06F-003/0482	201501		Chinese
US2016042166-A1	11 Feb 2016	G06F-021/32	201612		English
IN201503039-P3	03 Jun 2016	G06F-003/048	201670		English

Application Details and Date:

EP2784656-A1	EP161621	25 Mar 2014
WO2014157885-A1	WOKR002443	24 Mar 2014
KR2014118663-A	KR084934	18 Jul 2013
US2014298268-A1	US227522	27 Mar 2014
CN104077038-A	CN10118879	27 Mar 2014
US2016042166-A1	US882533	14 Oct 2015
IN201503039-P3	INMN03039	21 Oct 2015

Further Application Details:

US2014298268-A1	Provisional	Application	US805632P
US2016042166-A1	Provisional	Application	US805632P
US2016042166-A1	CIP of	Application	US227522
IN201503039-P3	PCT application	Application	WOKR002443
IN201503039-P3	Based on	Patent	WO2014157885

Priority Application Information and Date:

US805632P	27 Mar 2013
KR084934	18 Jul 2013

Designated States:
EP2784656-A1:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME
WO2014157885-A1:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IR; IS; JP; KE; KG; KN; KP; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SA; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

Cited Patent(s):

EP2784656-A1	US20100146451-A1	
	US20100269040-A1	
US2014298268-A1	US20080109751-A1	
	US20120017177-A1	
	US20120060123-A1	
	US20120311499-A1	
	US20130132904-A1	
	US20130169568-A1	
	US20130227450-A1	
	US20140075388-A1	
	US20140143856-A1	
	US20140283012-A1	
	US20150040024-A1	
	US8832597-B2	SILICON GRAPHICS INC (SLCO) KURTENBACH G P

Registro 20 de 42

Patent Number(s): WO2014140843-A1; US2014267648-A1; US9095423-B2

Title: Apparatus for providing feedback to visually impaired user, has mobile processor device that compares information derived from received real time image data with information in database

Inventor Name(s): WEXLER Y; SHASHUA A

Patent Assignee(s): ORCAM TECHNOLOGIES LTD (ORCA-Non-standard); ORCAM TECHNOLOGIES LTD (ORCA-Non-standard)

Derwent Primary Accession No.: 2014-R54445

Abstract: NOVELTY - The apparatus (110) has a mobile processor device that receives real time image data from a mobile image sensor. The image data comprises representation of an object in user environment. The mobile processor device receives a signal indicating desire of user to obtain information about object, and accesses database holding information about objects. The mobile processor device compares information derived from received real time image data with information in database and provides user with non-visual feedback indicating that information of object is not locatable in database.

USE - Apparatus for providing feedback to visually impaired user, such as smartphone, smartwatch or tablet mounted with camera.

ADVANTAGE - People with low vision is assisted effectively to accomplish everyday activities, and the difficulties caused due to lack of visual acuity, field-of-view, color perception and other visual impairments is prevented.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) a method for providing feedback to visually impaired user; and

(2) a program stored in computer readable medium for providing feedback to visually impaired user.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of the apparatus for providing feedback to visually impaired user.

User (100)

Glass (105)

Apparatus for providing feedback to visually impaired user (110)

Sensory unit (120)

Wire (130)

Processing unit (140)

Drawing:

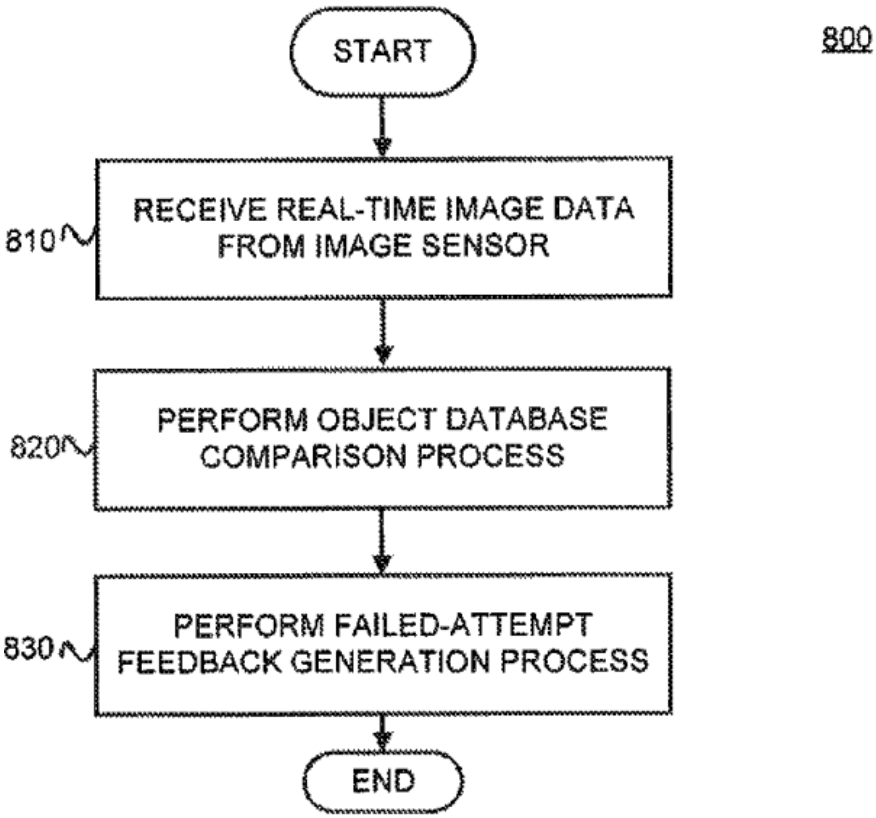


FIG. 8

Derwent Class Code(s): P85 (Education, cryptography, adverts); T01 (Digital Computers); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J05B4F; T01-J10B2; T01-J10B3B; T01-S03; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: G06F-003/01; G06K-009/00; G09B-021/00; A61F-009/08; G08B-003/10; G08B-006/00; G02C-011/00; G06F-017/27; G06F-003/16; G06K-009/74; G10L-013/04; H04N-005/225; H04N-005/232; H04N-007/00; H04N-007/18; H04N-009/47

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2014140843-A1	18 Sep 2014	G09B-021/00	201462	Pages: 65	English
US2014267648-A1	18 Sep 2014	A61F-009/08	201469		English
US9095423-B2	04 Aug 2015	H04N-009/47	201551		English

Application Details and Date:

WO2014140843-A1	WOIB000972	26 Feb 2014
US2014267648-A1	US137033	20 Dec 2013
US9095423-B2	US137033	20 Dec 2013

Further Application Details:

US2014267648-A1	Provisional	Application	US799649P
US2014267648-A1	Provisional	Application	US830122P
US9095423-B2	Provisional	Application	US799649P
US9095423-B2	Provisional	Application	US830122P

Priority Application Information and Date:

US799649P	15 Mar 2013
US830122P	02 Jun 2013
US137033	20 Dec 2013

Designated States:
WO2014140843-A1:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IR; IS; JP; KE; KG; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SA; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

Cited Patent(s):

WO2014140843-A1	EP2490155-A1	ORCAM TECHNOLOGIES LTD (ORCA-Non-standard)	NAAMAN E; SHASHUA A; WEXLER Y; NA'AMAN E
	US20060017810-A1		
	US20130035742-A1		
US9095423-B2	EP2065871-A1	BEYO GMBH (BEYO-Non-standard)	GOEKTEKIN C; ROJAS R; TENCHIO O
	EP2490155-A1	ORCAM TECHNOLOGIES LTD (ORCA-Non-standard)	NAAMAN E; SHASHUA A; WEXLER Y; NA'AMAN E
	US6115482-A	ASCENT TECHNOLOGY INC (ASCE-Non-standard)	SEARS J T; GOLDBERG D A

US20050208457-A1
US20060017810-A1
US20120075168-A1
US20120212593-A1
US20130035742-A1
US20130169536-A1
US20130271584-A1

Cited Article(s):

WO2014140843-A1	BALDUZZI L ET AL: "Low-cost face biometry for visually impaired users", BIOMETRIC MEASUREMENTS AND SYSTEMS FOR SECURITY AND MEDICAL APPLICATIONS (BIOMS), 2010 IEEE WORKSHOP ON, IEEE, PISCATAWAY, NJ, USA, 9 September 2010 (2010-09-09), pages 45-52, XP031781498, ISBN: 978-1-4244-6302-2
US9095423-B2	U.S. Appl. No. 14/136,438, filed Dec. 20, 2013, entitled "Apparatus, Method, and Computer Readable Medium for Expedited Text Reading Using Staged OCR Technique,".
	U.S. Appl. No. 14/135,727, filed Dec. 20, 2013, entitled "Systems and Method for Audible Facial Recognition,".
	U.S. Appl. No. 14/137,263, filed Dec. 20, 2013, entitled "Apparatus and Method for Executing System Commands Based on Captured Image Data,".
	U.S. Appl. No. 14/135,757, filed Dec. 20, 2013, entitled "Systems and Methods for Automatic Control of a Continuous Action,".
	U.S. Appl. No. 14/137,373, filed Dec. 20, 2013, entitled "Apparatus and Method for Automatic Action Selection Based on Image Context,".
	U.S. Appl. No. 14/135,762, filed Dec. 20, 2013, entitled "Systems and Methods for Performing a Triggered Action,".
	U.S. Appl. No. 14/137,328, filed Dec. 20, 2013, entitled "Apparatus and Method for Performing Actions Based on Captured Image Data,".
	U.S. Appl. No. 14/135,859, filed Dec. 20, 2013, entitled "Apparatus Connectable to Glasses,".
	U.S. Appl. No. 14/137,446, filed Dec. 20, 2013, entitled "Apparatus and Method for Hierarchical Object Identification Using a Camera on Glasses,".
	U.S. Appl. No. 14/135,928, filed Dec. 20, 2013, entitled "Systems and Methods for Processing Images,".
	U.S. Appl. No. 14/135,775, filed Dec. 20, 2013, entitled "Systems and Methods for Providing Feedback Based on the State of an Object,".
	U.S. Appl. No. 14/137,522, filed Dec. 20, 2013, entitled "Apparatus and Method for Using Background Change to Determine Context,".
	U.S. Appl. No. 14/136,545, filed Dec. 20, 2013, entitled "Apparatus, Method, and Computer Readable Medium for Recognizing Text on a Curved Surface,".
	U.S. Appl. No. 14/137,384, filed Dec. 20, 2013, entitled "Systems and Methods for Audibly Presenting Textual Ifnormatio Included in Image Data,".
	U.S. Appl. No. 14/136,876, filed Dec. 20, 2013, entitled "Apparatus and Method for Analyzing Images.".
	Karacs, Kristof et al., "Bionic Eyeglass: An Audio Guide for Visually Impaired," Biomedical Circuits and Systems Conference, 2006, BIOCAS 2006, IEEE, Piscataway, NJ, Nov. 29, 2006, p. 190-193.
	Lai, Chin-Lun et al., "An Integrated Portable Vision Assistant Agency for the Visual Impaired People," 2009 IEEE International Conference on Control and Automation, Christchurch, New Zealand, Dec. 9-11, 2009 (6 pages).
	Balduzzi et al., "Low-cost face bioemtry for visually impaird users," 2010 IEEE Worshop on Biometric Measurements and Sytems for Security and Medical Applications (BIOMS), Sep. 9, 2010, pages 45-52, IEEE, Piscataway, NJ, USA.
	European Patent Office, PCT International Search Report, International Application No. PCT/IB2014/000972, Aug. 6, 2014, 4 pages.
	European Patent Office, Written Opinion of the International Searching Authority, International Application No. PCT/IB2014/000972, Aug. 6, 2014, 5 pages.

Registro 21 de 42

Patent Number(s): US2014097608-A1

Title: Printed matter attached to e.g. food packaging product, includes tactile feature which is deployed on substrate to identify proximity of symbolic content, to enable visually impaired person to approach and decipher symbolic content

Inventor Name(s): BUZHARDT E A; BUZHARDT M C

Patent Assignee(s): BUZHARDT E A (BUZH-Individual); BUZHARDT M C (BUZH-Individual)

Derwent Primary Accession No.: 2014-G09052

Abstract: NOVELTY - The printed matter has a tactile feature including Braille bump, which is deployed on a substrate, and symbolic content including barcode printed on the substrate. The tactile feature is configured to identify proximity of the symbolic content by sense of touch to lead a visually impaired person to the printed symbolic content and enable the person to approach and decipher the printed symbolic content. The substrate is made of paper, plastic, fabric, or metal sheet.

USE - Printed matter attached to food packaging product. Can also be used in clothing, tool, household product, business product, and automotive product.

ADVANTAGE - The tactile detection of proximity of non-tactile information on the printed label or printed matter is allowed and the acquisition of information is enabled using computing device such as smart phone. The optically acquired information is converted to speech and is read out to a user of computing device to assist visually challenged or impaired user in dim light. The acquired information is presented to the user on the smartphone, in other usable forms such as in large print, different fonts, different colors, lighted or backlit print, and like.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) a method of enabling visually impaired person to find desired non-tactile information on label; and

(2) a method of labeling product.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of the network computing environment.

Sever computing devices (102,104)

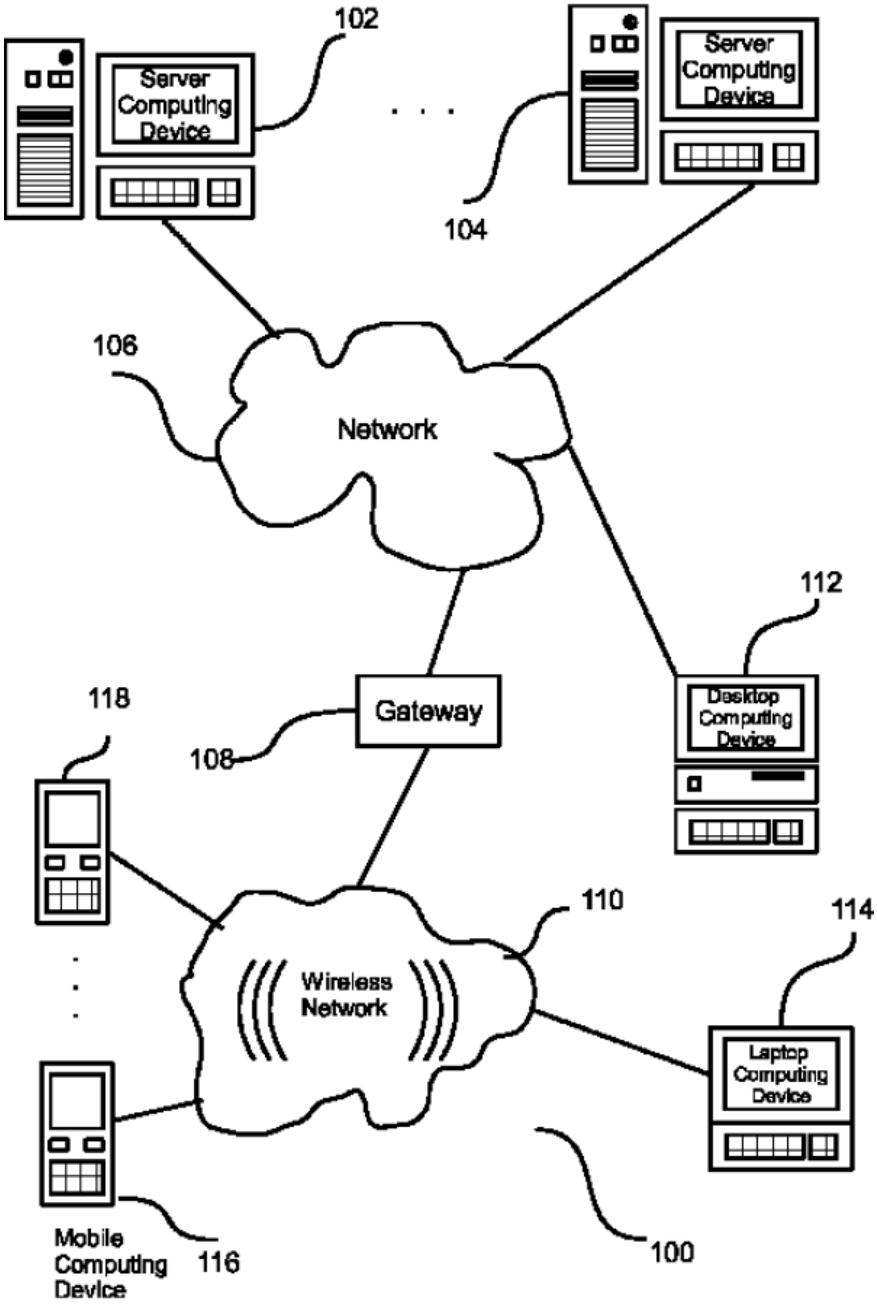
Network (106)

Desktop computing device (112)

Laptop computing device (114)

Mobile computing device (116)

Drawing:



Derwent Class Code(s): A95 (Transport - including vehicle parts, tyres and armaments); A83 (Clothing, footwear); A84 (Household and office fittings, carpets, carbon paper); A92 (Packaging and containers, ropes, nets); P72 (Working paper); P76 (Books, special printed matter); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): A11-C04A; A12-C00C; A12-D00D; A12-W06; A12-W07; W01-C01B3; W01-C01P2

IPC: B31D-005/00; B42D-015/10

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2014097608-A1	10 Apr 2014	B42D-015/10	201427	Pages: 13	English

Application Details and Date:

US2014097608-A1	US647312	08 Oct 2012

Priority Application Information and Date:

US647312	08 Oct 2012

Registro 22 de 42

Patent Number(s): KR1371570-B1

Title: Liquid crystal protection film, useful in touch screen of e.g. smartphone, for use by visually impaired person, comprises line element units, point element units, and connecting parts formed in both sides of respective line element units

Inventor Name(s): YOO J H; CHOI H I; JI T W; LEE S T; CHOI K J; LEE U J; MOON C H

Patent Assignee(s): UNIV KOREA TECHNOLOGY & EDUCATION IND CO (UYKO-Non-standard)

Derwent Primary Accession No.: 2014-F88404

Abstract: NOVELTY - The liquid crystal protection film comprises first and second line element units and first and second point element units, where the first element unit is arranged in a transverse direction along a first point element unit, and a second element unit is protruded along a second point element unit in a transverse direction. A set of small irregularities is formed at regular intervals in the point element units along the border in both the longitudinal direction of the touch screen. Connecting parts are formed in the both sides of the respective line element units.

USE - The liquid crystal protection film is useful in a touch screen of a portable terminal (claimed) mobile phone such as Iphone (RTM: Smartphone), for use by a visually impaired person, where the portable terminal further includes a notebook computer, an electronic dictionary, a MPEG-1 audio layer 3 player, and a personal digital assistant.

ADVANTAGE - The liquid crystal protective film allows the visually impaired persons to locate the position of the touch screen easily using an indicator, and effectively protects the surface of the screen without erroneous input.

DETAILED DESCRIPTION - The liquid crystal protection film comprises first and second line element units and first and second point element units, where the first element unit is arranged in a transverse direction along a first point element unit, and a second element unit is protruded along a second point element unit in a transverse direction. A set of small irregularities is formed at regular intervals in the point element units along the border in both the longitudinal direction of the touch screen. A set of small irregularities are formed longer than the irregularities of the point element units along the direction of the line element units. Connecting parts are formed in the both sides of the respective line element units. The film further comprises a third element unit formed longer than the second point element unit. The first point element unit or the second point element unit comprises a consecutive character, a number, and a symbol or figure.

Drawing:

Derwent Class Code(s): P73 (Layered products); P75 (Typewriters, stamps, duplicators); P85 (Education, cryptography, adverts); S06 (Electrophotography and Photography); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): S06-E08; T01-J11A1; T01-M06A1; T04-F02A2; T04-F02C; W01-C01B8H; W01-C01D3C; W01-C01G8; W01-C01P2; W01-C01Q6A; W04-G01B8

IPC: B32B-027/00; B41J-003/32; G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
KR1371570-B1	26 Mar 2014	B32B-027/00	201426	Pages: 10	

Application Details and Date:

KR1371570-B1	KR011627	01 Feb 2013

Priority Application Information and Date:

KR011627	01 Feb 2013

Registro 23 de 42

Patent Number(s): WO2014029331-A1; CN103631506-A; US2015160918-A1; RU2602781-C2; RU2015110156-A

Title: Reading method for browsing e.g. news through internet based on e.g. panel personal computer, involves detecting touching operation on touch screen to determine display object, converting text data into voice data and playing voice data

Inventor Name(s): ZENG L; HE M; CHEN L

Patent Assignee(s): TENCENT TECHNOLOGY SHENZHEN CO LTD (TNCT-C); ZENG L (ZENG-Individual); HE M (HEMM-Individual); CHEN L (CHEN-Individual); TENCENT TECHNOLOGY SHENZHEN CO LTD (TNCT-C)

Derwent Primary Accession No.: 2014-D75658

Abstract: NOVELTY - The method involves detecting (S1) touching operation on a touch screen to determine a display object i.e. function operation icon, corresponding to the touching operation. Text data is extracted (S2) corresponding to the display object by activating a text selection program, recognizing the text content of the display object, combining related texts to generate the corresponding text data and mapping function of the display object. The extracted text data is converted (S3) into voice data. The voice data is played (S4).

USE - Reading method for browsing news, information or e-books through an internet based on a terminal (claimed) e.g. electronic terminal such as smart-phone e.g. iphone (RTM: smartphone) or panel personal computer, ipad (RTM: tablet computer).

ADVANTAGE - The method enables detecting the touching operation on the touch screen of the terminal to determine the corresponding text data to be generated and converting the generated text data into the voice data for being played, thus allowing visually impaired people to read through auditory, which can extend an application range, facilitate auditory and is convenient to use.

DETAILED DESCRIPTION - The display object is text content. INDEPENDENT CLAIMS are also included for the following:

(1) a terminal

(2) a computer-program product comprising a set of instructions for browsing news, information or e-books through an internet.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow diagram illustrating a reading method for browsing news, information or e-books through an internet based on a terminal.

Step for detecting touching operation on touch screen to determine display object corresponding to touching operation (S1)

Step for extracting text data corresponding to display object (S2)

Step for converting extracted text data into voice data (S3)

Step for playing voice data (S4)

Drawing:

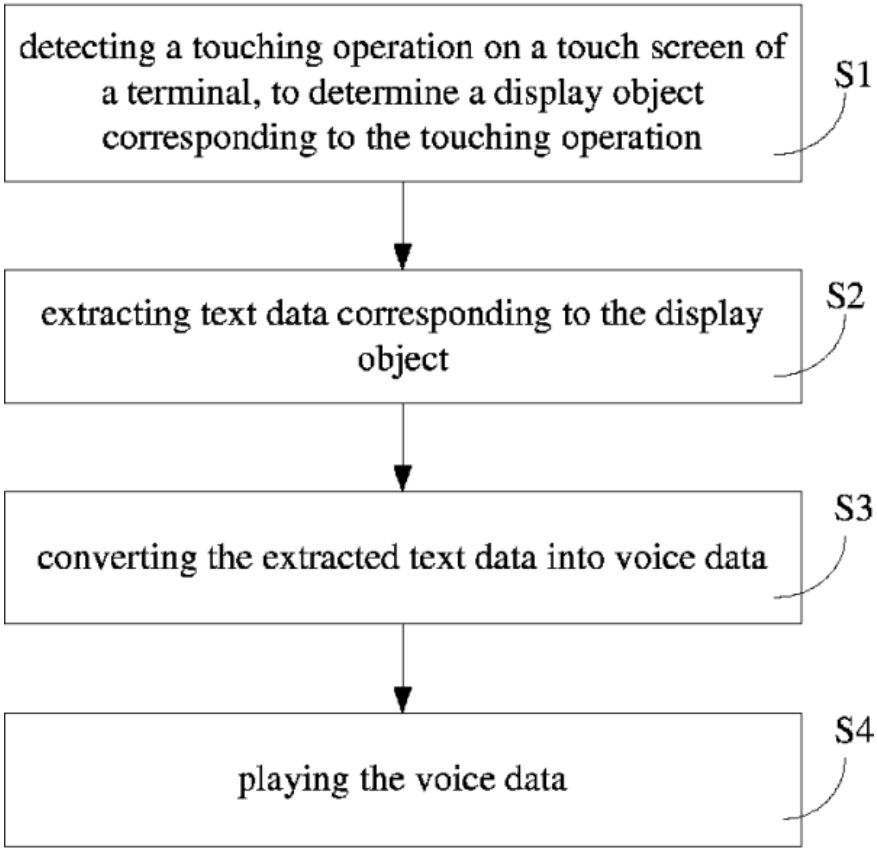


Fig. 1

Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J12D; T01-N01B4; T01-N01D2; T01-S03; T04-F02A2; W01-C01B8H; W01-C01D3C; W01-C01G8A; W01-C01P2; W01-C01Q6A

IPC: G06F-003/048; G06F-003/0488; G06F-003/0481; G06F-003/16

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2014029331-A1	27 Feb 2014	G06F-003/048	201416	Pages: 18	English

CN103631506-A	12 Mar 2014	G06F-003/0488	201429		Chinese
US2015160918-A1	11 Jun 2015	G06F-003/16	201538		English
RU2602781-C2	20 Nov 2016	G06F-003/048	201676		Russian
RU2015110156-A	10 Oct 2016	G06F-003/048	201682		Russian

Application Details and Date:

WO2014029331-A1	WOCN081932	21 Aug 2013
CN103631506-A	CN10305162	24 Aug 2012
US2015160918-A1	US623672	17 Feb 2015
RU2602781-C2	RU110156	21 Aug 2013
RU2015110156-A	RU110156	21 Aug 2013

Further Application Details:

US2015160918-A1	Cont of	Application	WOCN081932
RU2602781-C2	PCT application	Application	WOCN081932
RU2602781-C2	Based on	Patent	WO2014029331
RU2015110156-A	PCT application	Application	WOCN081932
RU2015110156-A	Based on	Patent	WO2014029331

Priority Application Information and Date:

CN10305162	24 Aug 2012

Designated States:

WO2014029331-A1:

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

Cited Patent(s):

WO2014029331-A1	CN1929655-A	UNIV SUN YAT SEN (UYSY)	LI S; LUO X
	CN101419546-A	YINGYEDA CO LTD (YING)	CHNEG X; QIU Q
	CN101950244-A	YULONG COMPUTER TELECOM SCI CO LTD (YULO)	FU N
	CN102520822-A	WUXI CHIGOO NETWORK TECHNOLOGIES CO LTD (WUXI-Non-standard)	PAN C
	US20050136953-A1		

Registro 24 de 42

Patent Number(s): WO2013186574-A2; WO2013186574-A3; GB2505548-A; GB2518788-A; EP2862037-A2; US2015141085-A1; CN104737090-A

Title: Mobile computing device e.g. smartphone, for use by visually-impaired or low-vision users, has physical feature i.e. distinctly colored ridge, which defines center-line of device across short and/or long axes of device

Inventor Name(s): ASHALL P; NAHA A; NUOVO F; ASHALL C P

Patent Assignee(s): ZONE V LTD (ZONE-Non-standard); ZONE V LTD (ZONE-Non-standard); ASHALL P (ASHA-Individual); NAHA A (NAHA-Individual); NUOVO F (NUOV-Individual); ZONE V CO LTD (ZONE-Non-standard)

Derwent Primary Accession No.: 2013-X28646

Abstract: NOVELTY - The device e.g. smartphone (1), has a physical feature i.e. distinctly colored ridge, which defines center-lines (2, 3) of the device across short and/or long axes of the device, where the feature locates or leads to a preset position of a camera lens. A bumper (8) is asymmetrically arranged around the device, where the body of the device has left-right asymmetrical shape. Sockets are set at the end of the bumper. A set of physical buttons for controlling device functions is set in the bumper. The device includes a physical keyboard (6) and a touch screen display (5) with haptic feedback.

USE - Mobile computing device such as smartphone, tablet or phablet, for use by visually-impaired or low-vision users.

ADVANTAGE - The device has a design based on tangible user benefits of usability and long lasting design quality. The device has sight-, sound- and touch-amplification characteristics. The device allows visually-impaired or low-vision users to easily navigate by feel by sensing position of hands and location of important parts by touch. The device has unique topography, thus allowing visually-impaired or low-vision users to easily identify the touching and holding options of the device by the user. The device has combined physical features with haptics, thus creating best possible interactive user experience.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of a smartphone.

Smartphone (1)

Center-lines (2, 3)

Touch screen display (5)

Physical keyboard (6)

Bumper (8)

Drawing:

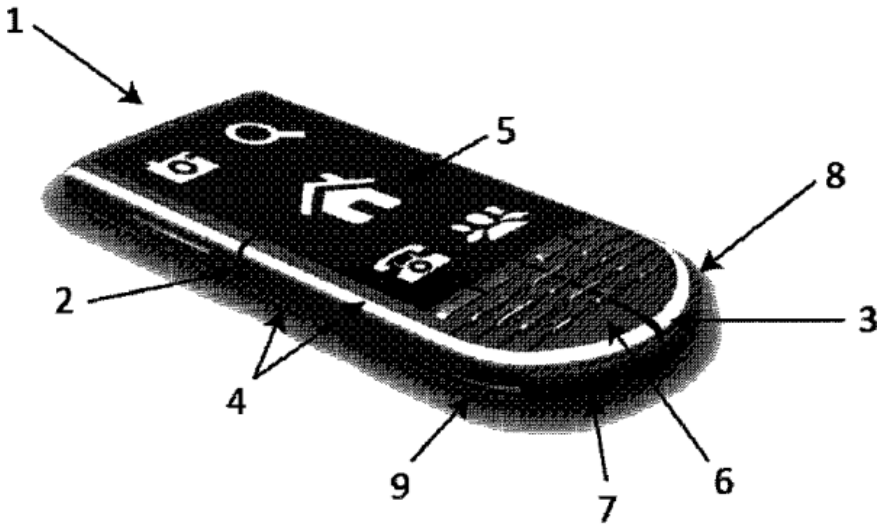


Figure 1

Derwent Class Code(s): P85 (Education, cryptography, adverts); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-L02A; T04-F02A2; T04-F03; W01-C01A; W01-C01B8H; W01-C01D3C; W01-C01G8; W01-C01P2; W01-C01Q6A; W01-C01Q6E

IPC: G06F-001/16; G09B-021/00; H04M-001/02; H04M-001/725

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2013186574-A2	19 Dec 2013	G06F-001/16	201401	Pages: 42	English
WO2013186574-A3	20 Feb 2014	G06F-001/16	201414		English
GB2505548-A	05 Mar 2014	G06F-001/16	201417		English
GB2518788-A	01 Apr 2015	G06F-001/16	201523		English
EP2862037-A2	22 Apr 2015	G06F-001/16	201529		English
US2015141085-A1	21 May 2015	H04M-001/725	201535		English
CN104737090-A	24 Jun 2015	G06F-001/16	201558		Chinese

Application Details and Date:

WO2013186574-A2	WOGB051565	14 Jun 2013
WO2013186574-A3	WOGB051565	14 Jun 2013
GB2505548-A	GB010700	14 Jun 2013
GB2518788-A	GB000531	14 Jan 2015
EP2862037-A2	EP737844	14 Jun 2013
US2015141085-A1	US14408190	15 Dec 2014
CN104737090-A	CN80043147	14 Jun 2013

Further Application Details:

GB2518788-A	PCT application	Application	WOGB051565
GB2518788-A	Based on	Patent	WO2013186574
EP2862037-A2	PCT application	Application	WOGB051565
EP2862037-A2	Based on	Patent	WO2013186574
US2015141085-A1	PCT application	Application	WOGB051565
CN104737090-A	PCT application	Application	WOGB051565
CN104737090-A	Based on	Patent	WO2013186574

Priority Application Information and Date:

GB010566	14 Jun 2012
GB010570	14 Jun 2012
GB010572	14 Jun 2012
GB010577	14 Jun 2012
GB010581	14 Jun 2012
GB010583	14 Jun 2012
GB010586	14 Jun 2012
GB010588	14 Jun 2012
GB010589	14 Jun 2012
GB010592	14 Jun 2012
CN80043147	13 Feb 2015

Designated States:
WO2013186574-A2:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
WO2013186574-A3:

(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
EP2862037-A2:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME

Cited Patent(s):

WO2013186574-A2	EP1406444-A1	
	EP1918955-A1	
	EP1460836-A2	SAMSUNG ELECTRONICS CO LTD (SMSU) LEE S
	US20020058536-A1	
	US20050272484-A1	
	US20080231476-A1	
	US20100178954-A1	
GB2505548-A	CN201830583-U	
	JP2008252703-A	
	US20080111798-A1	
GB2518788-A	US20020058536-A1	
	US20050272484-A1	
	US20080231476-A1	
	US20100178954-A1	
US2015141085-A1	US20040196403-A1	
	US20040209577-A1	
	US20050272484-A1	
	US20080231476-A1	
	US20100122195-A1	
	US20120169774-A1	
	US20130321340-A1	
	US20140380209-A1	

Cited Article(s):

GB2518788-A	EP1460836A2
	EP1918955A2
	EP1406444A1

Registro 25 de 42

Patent Number(s): US2013335314-A1; TW201401184-A

Title: Intelligence reminding apparatus e.g. earphone with image capturing function, has reminding unit that performs image reminding of history data according to sequential order if face image matches face photo

Inventor Name(s): CHANG W; YANG T; CHOU H; TSAI C

Patent Assignee(s): ALTEK CORP (ALTK-C); ALTEK CORP (ALTK-C)

Derwent Primary Accession No.: 2013-X26943

Abstract: NOVELTY - The apparatus has an image capturing unit (33) that captures a dynamic image. A face detecting unit performs a face detection of the dynamic image. A database stores face photo and history data related to the face photo. A face recognizing unit compares the face image with the face photo, and acquires the history data related to the face photo from the database if the face image matches the face photo. A reminding unit performs an image reminding of the history data according to a sequential order after the history data related to the face photo are acquired.

USE - Intelligence reminding apparatus such as earphone, glass, casing of notebook computer and smartphone with image capturing function.

ADVANTAGE - The users can be reminded with related data of a specific related person actively during the face detection and recognition of the preview-image or the dynamic image. The apparatus can be used as an auxiliary tool for the visually impaired persons, since the mobile phone, camera, or wearing type image capturing device can recognize the image quickly and remind the user through voices about the identity information of a person. Therefore the social activities of the visually impaired persons can be easily facilitated.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an intelligence reminding method.

DESCRIPTION OF DRAWING(S) - The drawings show a schematic view of the intelligence reminding apparatus.

Glass (31)

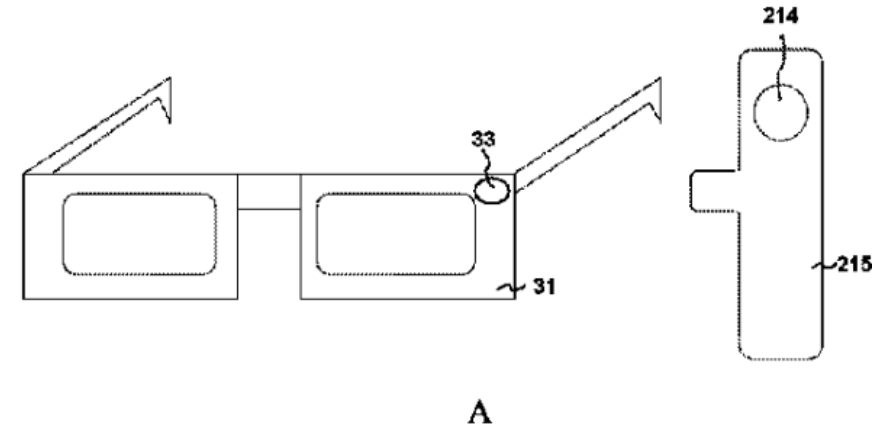
Image capturing unit (33)

Smart phone (211)

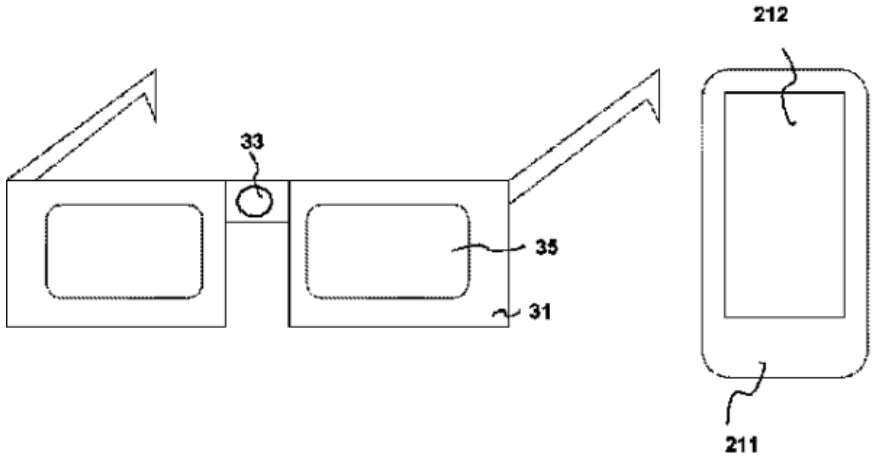
Screen (212)

Earphone (215)

Drawing:



A



B

Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-E01A; T01-J05B4B; T01-J05B4F; T01-J10B2A; T01-J10E; T01-L02B; T01-M06A1; T04-D07F1; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: G06F-003/01; G06F-017/30; G06K-009/78; H04M-003/42

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2013335314-A1	19 Dec 2013	G06F-003/01	201401	Pages: 12	English
TW201401184-A	01 Jan 2014	G06K-009/78	201425		Chinese

Application Details and Date:

US2013335314-A1	US599499	30 Aug 2012
TW201401184-A	TW121820	18 Jun 2012

Priority Application Information and Date:

TW121820	18 Jun 2012

Registro 26 de 42

Patent Number(s): WO2013184289-A1; US2013332070-A1; US9429431-B2; US2017045372-A1

Title: Method for presenting map information to visually impaired user by e.g. mobile electronic device, involves providing non-visual output i.e. audio output, which indicates whether geographic location coincides with determined path

Inventor Name(s): FLEIZACH C B; HUDSON R D; PEDERSEN M M; WHITE S C; DA SILVA J L; LOPES D S J

Patent Assignee(s): APPLE INC (APPY-C); APPLE INC (APPY-C)

Derwent Primary Accession No.: 2013-W80961

Abstract: NOVELTY - The method involves accessing a map, where the map includes a set of paths. An input is received via an input component i.e. touchscreen, of a mobile electronic device (115) from a visually impaired user (105). An input-space point within an input space is determined corresponding to the input. The input-space point is associated with a geographic location identified by the map. A determination is made whether the location coincides with a path of the set of paths. Non-visual output i.e. audio signal (125), which indicates whether the geographic location coincides with the path, is provided.

USE - Method for presenting map information to a user i.e. visually impaired user, by a mobile electronic device (claimed). Uses include but are not limited to cellular

phone, laptop computer, iPod (RTM: portable media player), iPhone (RTM: smartphone) and iPad (RTM: tablet computer).

ADVANTAGE - The method enables providing non-visual output i.e. audio signal output, which indicates whether the geographic location coincides with the path of a set of paths, to the visually impaired user such that the visually impaired user is informed about a path's trajectory where paths intersect and/or points of interests are located. The non-visual output can provide indications about nearby streets and locations while assisting the user in understanding how to follow a street on a screen such that the user can understand a trajectory of the street.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a mobile electronic device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view illustrating a system for providing map data to visually impaired users.

System for providing map data to visually impaired users (100)

Visually impaired user (105)

Pavement (110)

Mobile electronic device (115)

Audio signal (125)

Drawing:

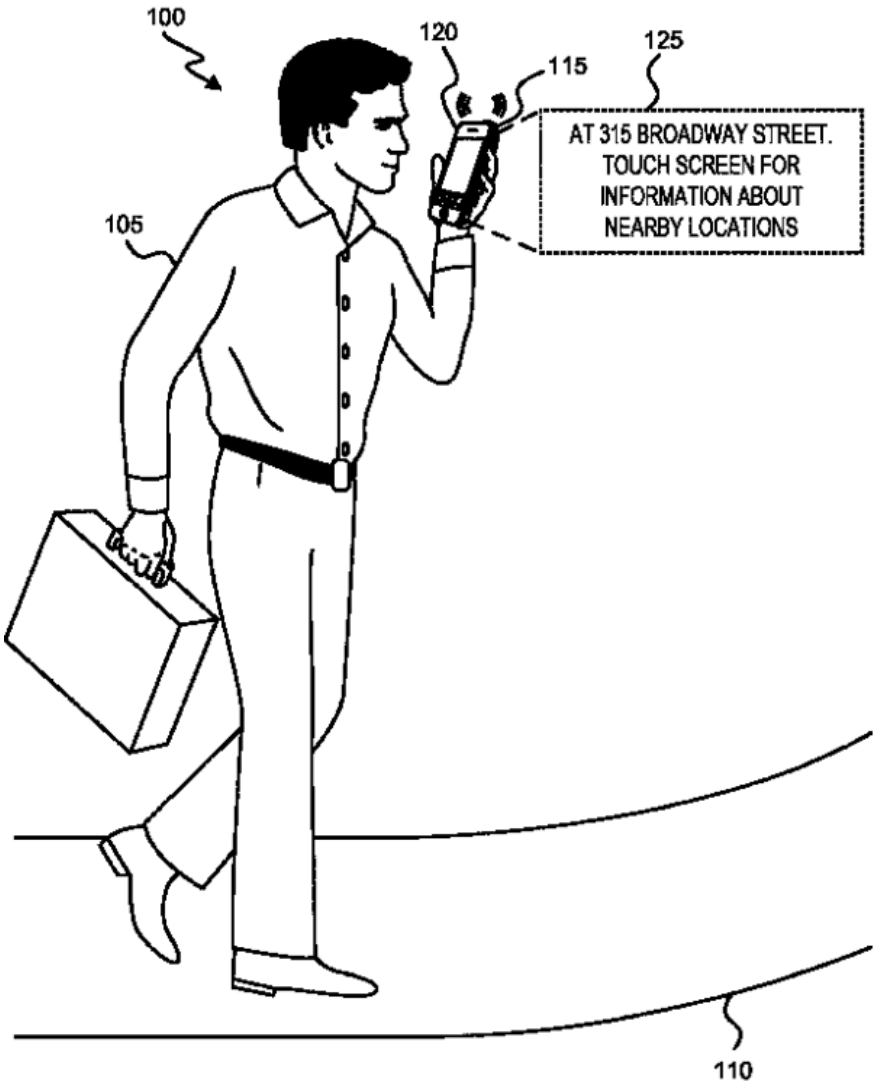


FIG. 1

Derwent Class Code(s): S02 (Engineering Instrumentation, recording equipment, general testing methods)

Derwent Manual Code(s): S02-B08E; S02-B08G

IPC: G01C-021/20; G01C-021/34; G01C-021/36; G01G-021/00; G06F-003/01; G06F-003/0488; G06F-003/16

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2013184289-A1	12 Dec 2013	G01C-021/20	201401	Pages: 52	English
US2013332070-A1	12 Dec 2013	G01C-021/34	201401		English
US9429431-B2	30 Aug 2016	G01G-021/00	201657		English
US2017045372-A1	16 Feb 2017	G01C-021/36	201714		English

Application Details and Date:

WO2013184289-A1	WOUS040633	10 May 2013
US2013332070-A1	US605407	06 Sep 2012
US9429431-B2	US605407	06 Sep 2012
US2017045372-A1	US249228	26 Aug 2016

Further Application Details:

US2013332070-A1	Provisional	Application	US657245P
US9429431-B2	Provisional	Application	US657245P
US2017045372-A1	Provisional	Application	US657245P
US2017045372-A1	Cont of	Application	US605407
US2017045372-A1	Cont of	Patent	US9429431

Priority Application Information and Date:

US657245P	08 Jun 2012
US605407	06 Sep 2012
US249228	26 Aug 2016

Designated States:
WO2013184289-A1:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

Cited Patent(s):

WO2013184289-A1	EP2133663-A1	IL VILLAGE SPA (ILVI-Non-standard)	DE PAOLI A
	US5470233-A	ARKENSTONE INC (ARKE-Non-standard)	LAPIERRE C; SCHWEGLER W C; FRUCHTERMAN J R; MERRITT B W
	US20030179133-A1		
	US20110193795-A1		
US2013332070-A1	US20070129883-A1		
	US20090005981-A1		
	US6172641-B1	MAGELLAN DIS INC (MAGE-Non-standard)	MILLINGTON J A
	US8791956-B2	SONY CORP (SONY)	ANDO Y; YAMAZAKI S
US9429431-B2	US20070129883-A1		
	US20090005981-A1		
	US6172641-B1	MAGELLAN DIS INC (MAGE-Non-standard)	MILLINGTON J A
	US8791956-B2	SONY CORP (SONY)	ANDO Y; YAMAZAKI S
	EP2133663-A1	IL VILLAGE SPA (ILVI-Non-standard)	DE PAOLI A
	US5470233-A	ARKENSTONE INC (ARKE-Non-standard)	LAPIERRE C; SCHWEGLER W C; FRUCHTERMAN J R; MERRITT B W
	US20030179133-A1		
	US20110193795-A1		

Cited Article(s):

US9429431-B2 International Search Report mailed Aug. 30, 2013 in PCT Application No. PCT/US2013/040633, 11 pages.

“Two Google Apps Help Blind Navigate,” TechHive, Oct. 12, 2010, [online], [retrieved on Nov. 5, 2013], retrieved from the internet: <URL: http://www.techhive.com/article/207500/Two—Google—Apps—Help—Blind—Navigate.html>, 2 pages.

International Preliminary Report on Patentability, dated Dec. 9, 2014, received in International Patent Application No. PCT/US2013/040633, which corresponds with U.S. Appl. No. 13/605,407, 7 pages.

Registro 27 de 42

Patent Number(s): DE102012205634-A1; EP2648423-A2; EP2648423-A3; DE102012205634-B4; EP2648423-B1

Title: Method for operating hearing aid device i.e. behind-the-ear hearing aid device, by visually impaired person, involves automatically assigning detected position or movement of body part to virtual position

Inventor Name(s): RASS U

Patent Assignee(s): SIEMENS MEDICAL INSTR PTE LTD (SIEI-C); SIEMENS MEDICAL INSTR PTE LTD (SIEI-C); SIEMENS MEDICAL INSTR PTE LTD (SIEI-C)

Derwent Primary Accession No.: 2013-Q36765

Abstract: NOVELTY - The method involves presenting first and second acoustic signals (10, 11) originating from first and second virtual positions by a hearing aid device, respectively, where the acoustic signals represent respective setting options of the device. A body part of a user (13) is induced to one of the virtual positions, and a position or movement of the body part of the user is detected. The detected position or movement of the body part is automatically assigned to the virtual position, where the setting option corresponding to the assigned virtual position is chosen.

USE - Method for operating a hearing aid device i.e. behind-the-ear hearing aid device, with a smartphone, a notebook, or a tablet computer by a user i.e. visually impaired person. Can also be used for a receiver-in-canal hearing aid device, in-the-ear (ITE) hearing aid device, completely-in-canal (CIC) hearing aid device, bone anchored hearing aid device and a vibrotactile hearing aid device.

ADVANTAGE - The method allows representing multiple setting options as sound stimulus of different spatial positions of the body part of the user such that each setting option is assigned with a location in space, thus allowing the user to automatically assign the required setting option by positioning, aligning or moving the body part in a simple manner, and hence realizing comfortable operation of the hearing aid device even by a visually impaired person or by a user during driving of a car.

DETAILED DESCRIPTION - The setting options concern a hearing aid program, volume, pitch, directional characteristics, intercarrier noise suppressor or hearing contents. An INDEPENDENT CLAIM is also included for a hearing aid device.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic top view of a user with a hearing aid device.

Acoustic signals (10-12)

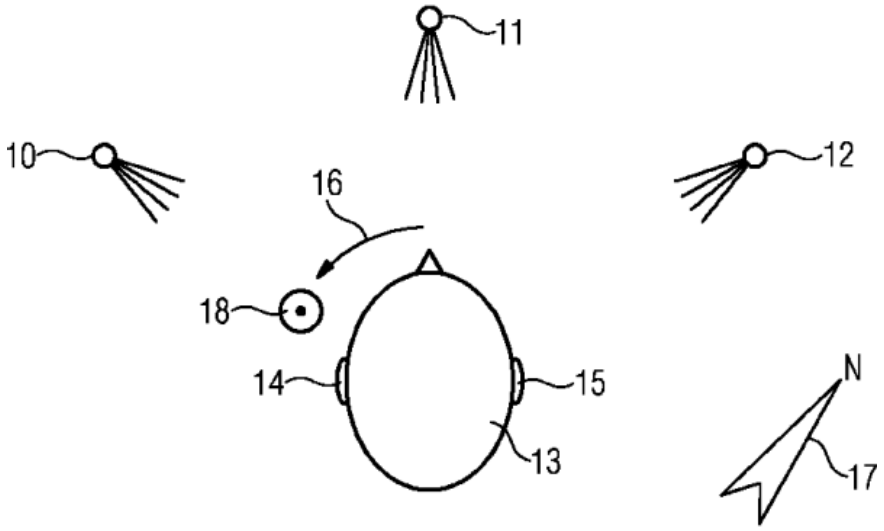
User (13)

Hearing aids (14, 15)

Rotation direction of user's head (16)

Earth's magnetic field (17)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); V06 (Electromechanical Transducers and Small Machines); W01 (Telephone and Data Transmission Systems); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-J07D3; T01-M06A1; V06-V02S; V06-V04A4; V06-V04K; W01-C01D3C; W01-C01G8; W01-C01P2; W04-Y01; W04-Y03C5

IPC: H04R-025/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
DE102012205634-A1	10 Oct 2013	H04R-025/00	201370	Pages: 10	German
EP2648423-A2	09 Oct 2013	H04R-025/00	201370		German
EP2648423-A3	05 Mar 2014	H04R-025/00	201417		German
DE102012205634-B4	10 Jul 2014	H04R-025/00	201445		German
EP2648423-B1	08 Jul 2015	H04R-025/00	201545		German

Application Details and Date:

DE102012205634-A1	DE10205634	05 Apr 2012
EP2648423-A2	EP160286	21 Mar 2013
EP2648423-A3	EP160286	21 Mar 2013
DE102012205634-B4	DE10205634	05 Apr 2012
EP2648423-B1	EP160286	21 Mar 2013

Priority Application Information and Date:

DE10205634	05 Apr 2012

Designated States:

EP2648423-A2:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME
EP2648423-A3:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME
EP2648423-B1:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR

Cited Patent(s):

DE102012205634-A1	DE10351509-A1	CHALUPPER J (CHAL-Individual)	CHALUPPER J
	DE10305830-B3	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORTEKAAS R
	EP1619928-A1	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORNAGEL U
EP2648423-A2	EP1619928-A1	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORNAGEL U
EP2648423-A3	DE10351509-A1	CHALUPPER J (CHAL-Individual)	CHALUPPER J
	DE10305830-B3	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORTEKAAS R
	EP340594-A	SIEMENS AG (SIEI)	STEEGER G
	EP1619928-A1	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORNAGEL U
EP2648423-B1	DE10351509-A1	CHALUPPER J (CHAL-Individual)	CHALUPPER J

DE10305830-B3	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORTEKAAS R
EP340594-A	SIEMENS AG (SIEI)	STEEGER G
EP1619928-A1	SIEMENS AUDIOLOGISCHE TECH GMBH (SIEI)	KORNAGEL U

Registro 28 de 42

Patent Number(s): US2013215065-A1; US8963888-B2

Title: Electro-vibration apparatus to provide tactile feedback to electronic device user, generates vibration to user, when main portion of body of user is moved across main segment, and auxiliary portion of body is in contact with electrode

Inventor Name(s): RADIVOJEVIC Z; BEECHER P

Patent Assignee(s): NOKIA CORP (OYNO-C)

Derwent Primary Accession No.: 2013-M55577

Abstract: NOVELTY - The electro-vibration apparatus (1) is provided with has a partially transparent main segment (10) with an electrically conductive section, and an electrode (14). A vibration system is connected to the electrically conductive section and the electrode. The vibration system provides a voltage across the electrically conductive section, a portion of a body of a user, and the electrode. The apparatus generates a vibration to user, when a main portion of body of the user is moved across the main segment while an auxiliary portion of body is in contact with the electrode.

USE - Electro-vibration apparatus for providing tactile feedback to user visually impaired person such as of portable electronic device with touch screen displays such as smartphone. Can also be used in relation to computer gaming.

ADVANTAGE - The electro-vibration apparatus is provided with transparent electro-vibration film and is formed of very simple construction with no moving components. Thus, it is relatively easy to manufacture and is provided with relatively low bill of materials. The nature of the materials used for the transparent electro-vibration film, and its dimensions, can allow the film to be bendable and flexible. Thus, the electro-vibration device can be integrated with flexible hand-held display devices. The electro-vibration apparatus can allow the visually impaired person to feel by touch what is being shown on the display, even when they cannot see it properly. The electro-vibration apparatus can creates a sound while providing electro-vibration to a user, depending on characteristics of the apparatus and at electro-vibration signal frequencies of higher than 600 Hz. The frequency of the sound can be varied with the frequency of the electro-vibration signal, and this noise can also be of use in providing an indication of what is being displayed on the display screen. Thus, when the user slides their finger over the video/music player icon, a noise can be generated and this can provide an additional indication to the user as to the identification of the icon.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) method for providing tactile feedback to users of touch screen displays; and

(2) computer-readable storage medium storing program for providing tactile feedback to users of touch screen displays.

DESCRIPTION OF DRAWING(S) - The drawing shows the schematic cross-sectional view of an apparatus for providing tactile feedback to a user of a portable electronic device.

Electro-vibration apparatus (1)

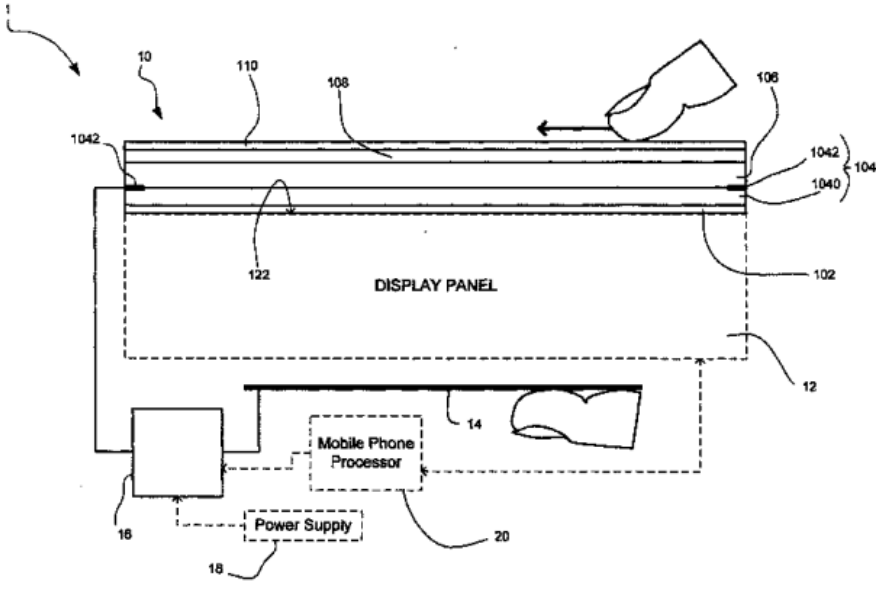
Partially transparent main segment (10)

Electrode (14)

Feedback circuitry (16)

Processor (20)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J12D; T04-F02A2; T04-F02C; T04-F03; T04-H04; W01-C01B8H; W01-C01D3C; W01-C01G8A; W01-C01P2; W01-C01Q6A

IPC: G06F-003/01; G06F-003/042; G06F-003/045

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2013215065-A1	22 Aug 2013	G06F-003/01	201359	Pages: 16	English
US8963888-B2	24 Feb 2015	G06F-003/042	201515		English

Application Details and Date:

US2013215065-A1	US852285	28 Mar 2013
US8963888-B2	US852285	28 Mar 2013

Further Application Details:

US2013215065-A1	Cont of	Application	US542373
US2013215065-A1	Cont of	Patent	US8441465
US8963888-B2	Cont of	Application	US542373
US8963888-B2	Cont of	Patent	US8441465

Priority Application Information and Date:

US542373	17 Aug 2009
US852285	28 Mar 2013

Cited Patent(s):

US8963888-B2	CN101431552-A	LEE S (LEES-Individual); OH H (OHHH-Individual); PARK H (PARK-Individual); SONG J (SONG-Individual); PARK S M (PARK-Individual); PARK J (PARK-Individual)	LEE S; OH H; PARK H; PARK J; PARK S M; SONG J
	EP1406150-A1		
	EP1422601-A1	SHARP KK (SHAF)	MIYAMOTO S; NAKANO T
	EP1939712-A1	SAMSUNG ELECTRONICS CO LTD (SMSU)	YOON S H; LEE K T
	EP2058727-A2	LEE S (LEES-Individual); OH H (OHHH-Individual); PARK H (PARK-Individual); SONG J (SONG-Individual); PARK S M (PARK-Individual); PARK J (PARK-Individual)	LEE S; OH H; PARK H; PARK J; PARK S M; SONG J
	EP2124131-A2	LG ELECTRONICS INC (GLDS)	LIM H B; MOON B P; PARK J P
	US20060049920-A1		
	US20060119586-A1		
	US20070139167-A1		
	US20080024459-A1		
	US20080120029-A1		
	US20080198139-A1		
	US20090002328-A1		
	US20090073112-A1		
	US20090085878-A1		
	US20090086326-A1		
	US20090160796-A1		
	US20090167704-A1		
	US20100238114-A1		
	US20100280713-A1		
	US20110204119-A1		
	US7755607-B2	SONY CORP (SONY)	POUPYREV I; REKIMOTO J; MARUYAMA S
	US7952566-B2	SONY CORP (SONY)	POUPYREV I; MARUYAMA S
	US8098234-B2	IMMERSION CORP (IMMR)	LACROIX R A; GREGORIO P; TIERLING K M
	US8441465-B2	NOKIA CORP (OYNO)	RADIVOJEVIC Z; BEECHER P
	WO2009002605-A1	IMMERSION CORP (IMMR)	ULLRICH C J; RYAN S; GOMEZ D H
	WO2009037379-A1	SENSEG OY (SENS-Non-standard)	LINJAMA J; MAEKINEN V; SUVANTO P
	WO2009042424-A1	IMMERSION CORP (IMMR)	GRANT D A; HEUBEL R W
	WO2009085060-A1	APPLE INC (APPY)	MINOO J; TERLIZZI J J
	WO2009097866-A1	NOKIA CORP (OYNO)	RADIVOJEVIC Z
	WO2009147282-A1	NOKIA CORP (OYNO)	KOIVUNEN R
	WO2009045996-A2	MOTOROLA INC (MOTI)	SINHA S
	WO2009120925-A2	SPRINT COMMUNICATIONS CO LP (SRIN)	ANNAN B C; LUNDY M T; VAN ORDEN M J

Cited Article(s):

US8963888-B2

Yamamoto, A., et al.; "Electrostatic Tactile Display with Thin Film Slider and Its Application to Tactile Telepresentation Systems"; Mar. 1, 2006; pp. 168-177; IEEE Transactions on Visualization and Computer Graphics, vol. 12, No. 2; IEEE Computer Society, XP003026562; Los Alamitos, CA, USA.

"Applications of a Minature Pin-Array Tactile Module for a Mobile Device", Tae-Heon Yang et al., International Conference on Control, Automation and Systems, Oct. 2008, pp. 1301-1304.

"Vibrotactile Display for Hand-held Input device Providing Spatial and Directional Information", Gi-Hun Yang et al., IEEE 2009, pp. 79-84.

"Vibrotactile Feedback Systems: Current Trends in Rehabilitation Sports and Information Display", A U. Alahakone et al., IEEE 2009, pp. 1148-1153.

"Tactile Displays: Guidance for Their Design and Application", Lynette A. Jones et al., Human Factors. vol. 50. No. 1, Feb. 2008, pp. 90-111.

"Virtual Reality Aided Assembly with Directional Vibro-Tactile Feedback", Holger Regenbrecht et al., 7 pgs., 2005.

"Polarity Effect in Electrovibration for Tactile Display", Kurt A Kaczmarek, IEEE Transactions on Biomedical Engineering, vol. 53, No. 10, Oct. 2006, pp. 2047-2054.

Registro 29 de 42

Patent Number(s): US2013191232-A1; US9026461-B2

Title: Method for assisting visually impaired or low visioned user at e.g. point-of-transaction performed with entity, involves providing indication that transaction is completed using payment option provided to user

Inventor Name(s): CALMAN M A; ROSS E S; THOMAS S S; LEE J; FANG Z; MULHOLLAND J; KIU B; TAN N

Patent Assignee(s): BANK OF AMERICA CORP (BAMC-C)

Derwent Primary Accession No.: 2013-L99383

Abstract: NOVELTY - The method (100) involves allowing communication segments of audio communication of information associated with a product of transaction to be flagged by a user via a mobile device (110) based on the audio information associated with the product including a name of the product and a price of the product such that the user and a merchant review a portion of the transaction associated with each segment. Payment options are provided (112) to the user for payment for the transaction. Indication that the transaction is completed is provided using one of the options provided to the user.

USE - Method for assisting a user i.e. visually impaired or low visioned user, at a point-of-transaction performed with an entity. Uses include but are not limited to an automated teller machine (ATM), loyalty device e.g. reward card and loyalty card, magnetic-based payment device e.g. credit card and debit card, personal identification number (PIN) payment device, contactless payment device i.e. key fob, radio frequency identification device (RFID), personal computer, tablet computer, desktop computer, server, laptop and a mobile device e.g. smartphone, cellular phone, personal digital assistant (PDA) device, MPEG-1 audio layer 3 (MP3) device and personal global positioning system device.

ADVANTAGE - The method enables providing improved point-of-transaction experience for the visually impaired individuals unable to monitor the transaction or to provide sensitive information to the merchant in an easy manner. The method enables providing a merchant module security functionality to prevent other users from utilizing a point-of-transaction assistance system without the user's knowledge.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a system for assisting a user at a point-of-transaction

(2) a computer program product comprising a set of instructions for assisting a user at a point-of-transaction.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow diagram illustrating a method for assisting a user at a point-of-transaction performed with an entity.

Method for assisting user at point-of-transaction (100)

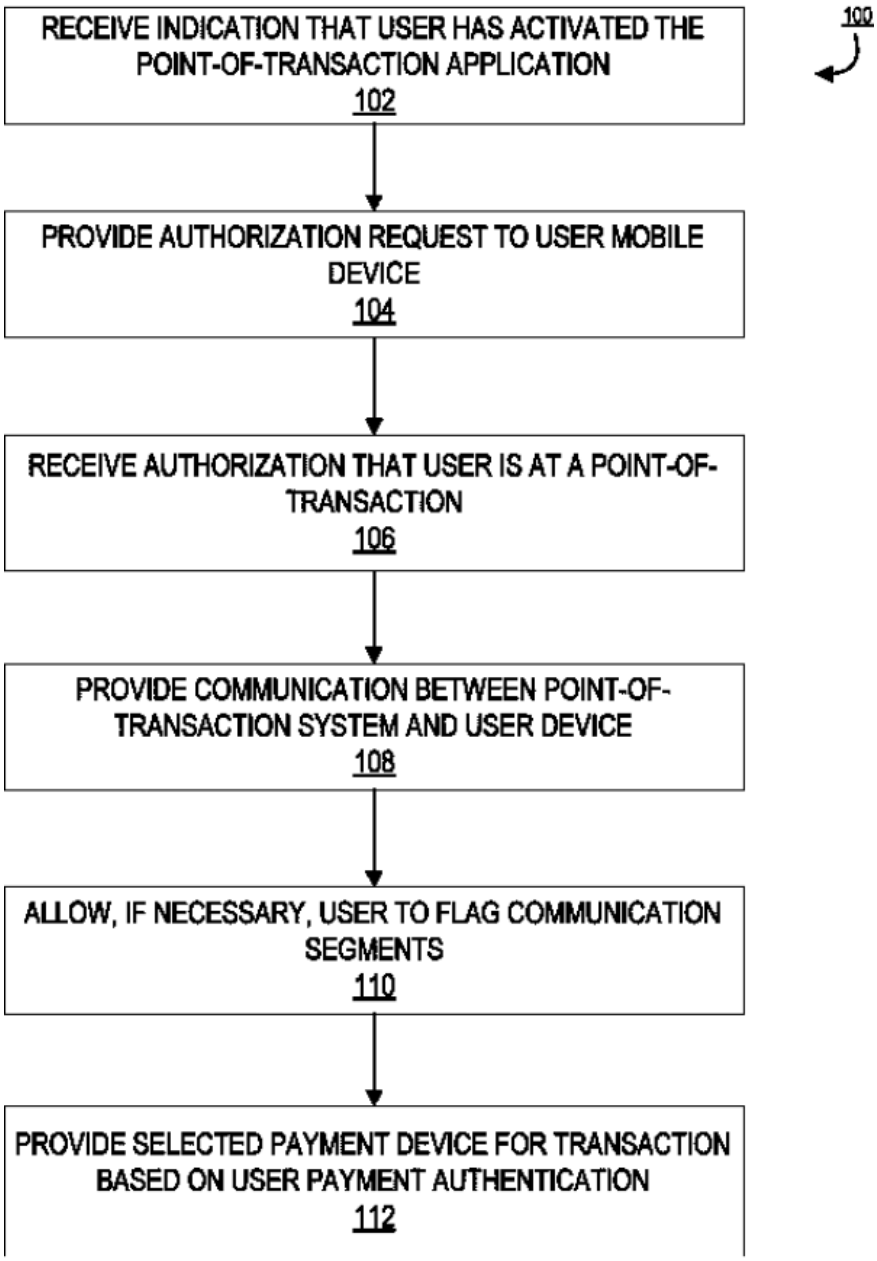
Step for providing authorization request to user mobile device (104)

Step for providing communication between point-of-transaction system and user device (108)

Step for allowing communication segments of audio communication of information associated with product of transaction to be flagged by user via mobile device (110)

Step for providing payment options to user for payment for transaction (112)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); T05 (Counting, Checking, Vending, ATM and POS Systems); W06 (Aviation, Marine and Radar Systems)

Derwent Manual Code(s): T01-F04; T01-N01A1; T01-N02A3C; T01-N02B2; T01-S03; T04-K03B; T05-L02; T05-L03C5; W06-A03A

IPC: G06Q-020/40; G07F-019/00; G07F-009/02; G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2013191232-A1	25 Jul 2013	G06Q-020/40	201352	Pages: 24	English
US9026461-B2	05 May 2015		201531		English

Application Details and Date:

US2013191232-A1	US355900	23 Jan 2012
US9026461-B2	US355900	23 Jan 2012

Priority Application Information and Date:

US355900	23 Jan 2012

Cited Patent(s):

US9026461-B2 US20060136901-A1
US20060165060-A1
US20110112918-A1
US20110302083-A1
US20120022944-A1
US20120143706-A1
US20120158589-A1
US20120185398-A1

Cited Article(s):

US9026461-B2 Wagner, Michael Andrew. Conversations About Technology. University of Wisconsin Madison, 2012.

Registro 30 de 42

Patent Number(s): US2013117025-A1; KR2013050608-A; CN103092507-A; US9075520-B2

Title: Apparatus for displaying information of character image as voice by object area in e.g. portable terminal, has controller recognizing object information of detected object area as character data, and audio processing unit outputting voice

Inventor Name(s): PARK H; KOH S; MI P H; HYEOK K S; KO S

Patent Assignee(s): SAMSUNG ELECTRONICS CO LTD (SMSU-C); SAMSUNG ELECTRONICS CO LTD (SMSU-C); SAMSUNG ELECTRONICS CO LTD (SMSU-C)

Derwent Primary Accession No.: 2013-H06954

Abstract: NOVELTY - The apparatus has a camera photographing a character image (213). A touch screen displays the image and allows selecting of an object area of the displayed image. A memory stores the image. A controller detects the object area within the image when displaying the image from the camera or the memory, and recognizes object information of the detected object area as character data to be converted into voice. An audio (215) processing unit outputs the voice. An area detection unit detects an area of the object included within the image.

USE - Apparatus for displaying and converting information of a character/symbol image as a voice by an object area in a portable terminal. Uses include but are not limited to smartphone, a computer, a notebook, a tablet personal computer (PC) and a mobile device.

ADVANTAGE - The apparatus allows a user to photograph an image of useful information such as an underground railway map or a road sign as shot reader image and represent information of the photographed image as voice, thus identifying and determining information without receiving assistance from another person. The apparatus allows a face of a person to be located at far distance so as to be photographed by using a zoom feature and compared with face stored in the memory of a phonebook of the portable terminal or registered face to confirm an identity of the person, so that a pedestrian navigation application using a camera function in the portable terminal is expected to be very useful for visually impaired people.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for representing an image in a portable terminal

(2) a non-transitory recording medium comprising a set of instructions for displaying an image in a portable terminal.

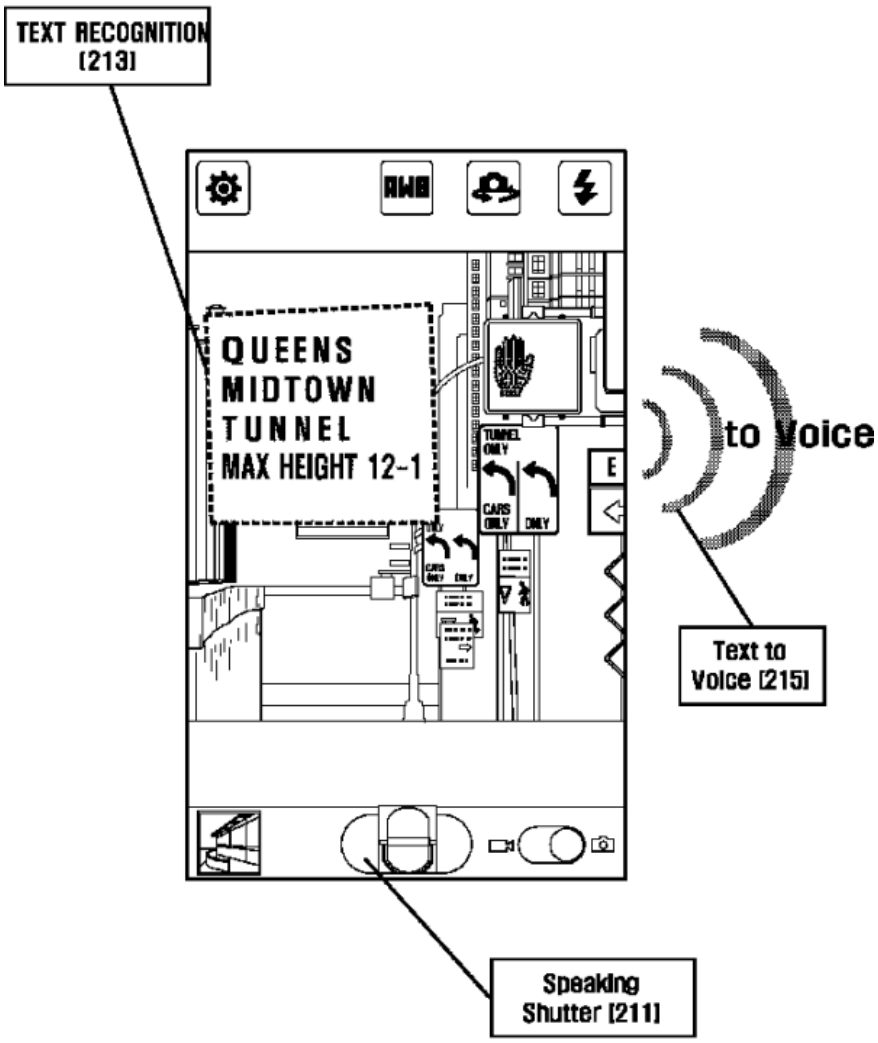
DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of object information of a shot reader image as a voice in a portable terminal.

Icon (211)

Character image (213)

Audio (215)

Drawing:



Derwent Class Code(s): P86 (Musical instruments, acoustics); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-J10E; T01-J18; T01-J21C; T04-F02A2; W04-V

IPC: G10L-013/00; G10L-013/08; H04B-001/40; G06F-003/0488; G06F-003/16; G06K-009/20; G06K-009/00; G10L-013/04

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2013117025-A1	09 May 2013	G10L-013/00	201332	Pages: 19	English
KR2013050608-A	16 May 2013	H04B-001/40	201336		
CN103092507-A	08 May 2013	G06F-003/0488	201366		Chinese
US9075520-B2	07 Jul 2015	G10L-013/04	201544		English

Application Details and Date:

US2013117025-A1	US658918	24 Oct 2012
KR2013050608-A	KR115776	08 Nov 2011
CN103092507-A	CN10443053	08 Nov 2012
US9075520-B2	US658918	24 Oct 2012

Priority Application Information and Date:

KR115776	08 Nov 2011

Cited Patent(s):

CN103092507-A	CN1578347-A	HITACHI LTD (HITA)	YAMAZAKI M; KUWAMOTO H
	CN1885291-A	SAMSUNG ELECTRONICS CO LTD (SMSU)	KIM S; KIM D G; PARK Y; LEE C; SEO Y
	CN101354748-A	YINGHUADA SHANGHAI ELECTRONICS CO LTD (YING-Non-standard)	CAI S; HUANG L; LI L
	US20060015337-A1		

Registro 31 de 42

Patent Number(s): WO2013061268-A2; WO2013061268-A3

Title: Method for mapping specified area for determining location of client-receiver in e.g. building, involves computing calibration parameter value for sound-signals, and storing calibration profile of position in database

Inventor Name(s): BEN-MOSHE B; LEVI H

Patent Assignee(s): UNIV ARIEL RES&DEV CO LTD (UYAR-Non-standard); UNIV ARIEL RES & DEV CO LTD (UYAR-Non-standard)

Derwent Primary Accession No.: 2013-G63714

Abstract: NOVELTY - The method involves transmitting a discrete sound-signal (312) having a base frequency from a sound-source (306) positionable in a specified area. The discrete sound-signals transmitted by sound-source are received, using a calibration-receiver located at calibration positions (308a-308g). Calibration parameter value of a parameter for received discrete sound-signals is computed. A calibration profile (314) of the calibration position is stored in a calibration database (316).

USE - Method for mapping specified area for determining location of client-receiver (all claimed) such as smartphone, cell phone, personal digital assistant (PDA), mobile computer, Bluetooth earphone, and tablet computer in specified area such as buildings with hallways or well-defined passageways in tunnels and in field of livestock control. Can also be used in determining location of person in conference hall and exhibition pavilion, vehicle such as airplane, cruise boat, location-dependent personalized advertisement and other location-based services, trolley in supermarket, rescue worker such as firepersons and search-teams in low-visibility conditions, visually impaired person and mechanical device such as robot, and in monitoring of beehives.

ADVANTAGE - The process is configured to provide accurate determination of location of the object in the specified area.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) a method for determining location of client-receiver in specified area;

(2) a device for mapping specified area;

(3) a device for determining location of client-receiver in specified area; and

(4) a device for providing signals useful in determining location of client-receiver in specified area.

DESCRIPTION OF DRAWING(S) - The drawing shows an explanatory view of the mapping stage of the process for determining location of receiver in designated area based on fingerprinting.

Sound-source (306)

Calibration positions (308a-308g)

Received discrete sound-signals (312)

Calibration profile (314)

Calibration database (316)

Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The client-receiver transmits information in accordance with WiFi, 2G, 3G and 4G standards.

Drawing:

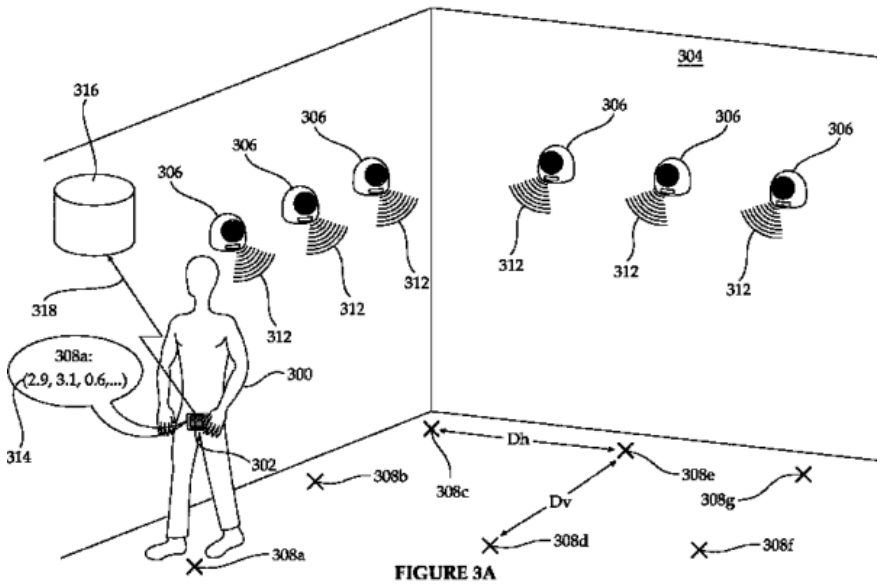


FIGURE 3A

Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W06 (Aviation, Marine and Radar Systems)

Derwent Manual Code(s): T01-J05B3; T01-J07D3; T01-M06A1; W01-C01D3C; W01-C01G8; W01-C01P2; W01-C01R; W01-C02B7L; W06-B01B1

IPC: G01S-000/00; G01S-005/18

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2013061268-A2	02 May 2013		201331	Pages: 90	English
WO2013061268-A3	01 Aug 2013	G01S-005/18	201351		English

Application Details and Date:

WO2013061268-A2	WOIB055871	25 Oct 2012
WO2013061268-A3	WOIB055871	25 Oct 2012

Priority Application Information and Date:

US551484P	26 Oct 2011
US699883P	12 Sep 2012

Designated States:
WO2013061268-A2:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
WO2013061268-A3:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BN; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

Cited Patent(s):

WO2013061268-A2	US5491670-A	WEBER T J (WEBE-Individual)	WEBER T J
	US20090280824-A1		
	US20120263020-A1		
	US20130079033-A1		
	WO2008069446-A1	ELECTRONICS&TELECOM RES INST (ETRI)	CHO S; KIM B; CHO Y; CHOI W; PARK J
WO2013061268-A3	US5491670-A	WEBER T J (WEBE-Individual)	WEBER T J
	US20090280824-A1		
	US20120263020-A1		
	US20130079033-A1		
	WO2008069446-A1	ELECTRONICS&TELECOM RES INST (ETRI)	CHO S; KIM B; CHO Y; CHOI W; PARK J

Registro 32 de 42

Patent Number(s): EP2587468-A2; US2013107121-A1; EP2587468-A3; EP2629279-A1; CN103118303-A; TW201337860-A; US9214093-B2

Title: Method for providing notice of availability of audio description for e.g. DVD media of e.g. item, involves causing audible indication distinct from description to be emitted in response to determine that description is available for media

Inventor Name(s): BLANCHARD R N; BLANCHARD R

Patent Assignee(s): SONY CORP (SONY-C); SONY CORP (SONY-C); SONY CORP (SONY-C)

Derwent Primary Accession No.: 2013-G68513

Abstract: NOVELTY - The method involves determining that an audio description is available for an item of visual media of a catalog of items of the media at a processing device (101). An audible indication distinct is caused from an audio of the audio description to be emitted in response to the determination. A user preference relating to the description to be set is determined at the device. The description for the item of the visual media is automatically selected. A set of all items of the media with the description of the catalog of items of the media is determined at the device.

USE - Method for providing notice of an availability of audio description for visual media e.g. TV programming and DVD or BluRay media, of an item via audible indications to visually impaired/blind visual media consumer/person. Uses include but are not limited to TV or online channel/program, broadcast, movie, show, series, documentary and advertisement in set-top box, digital video recorder (DVR), TV controller, computer, smartphone and tablet.

ADVANTAGE - The method allows catalog of items of the visual media to be sorted, so that items of the visual media including audio description can be selected or inquired in a quick and convenient manner. The method enables providing result to be more efficient and more enjoyable of overall visual media consumption experience for the visually impaired person. The method allows the visually impaired person to read text descriptions of the visual media and find the item of the media in an efficient manner. The method enables pre-sorting of the items of the visual media with audio description to be facilitated, thus eliminating the need for the visually impaired person to manually search the items. The method allows the catalog of items of the visual media to be simple. The method enables providing notice of the availability of audio description for the visual media in an efficient manner, so that the audio description is not time consuming for the visually impaired person and not can hinder efficiency or enjoyment in consuming the visual media.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an apparatus for providing notice of an availability of audio description.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of an apparatus for providing notice of availability of audio description.

Processing device (101)

Visual media providers (104)

Communication link (105)

Sound emitting device (106)

Interface device (201)

Drawing:

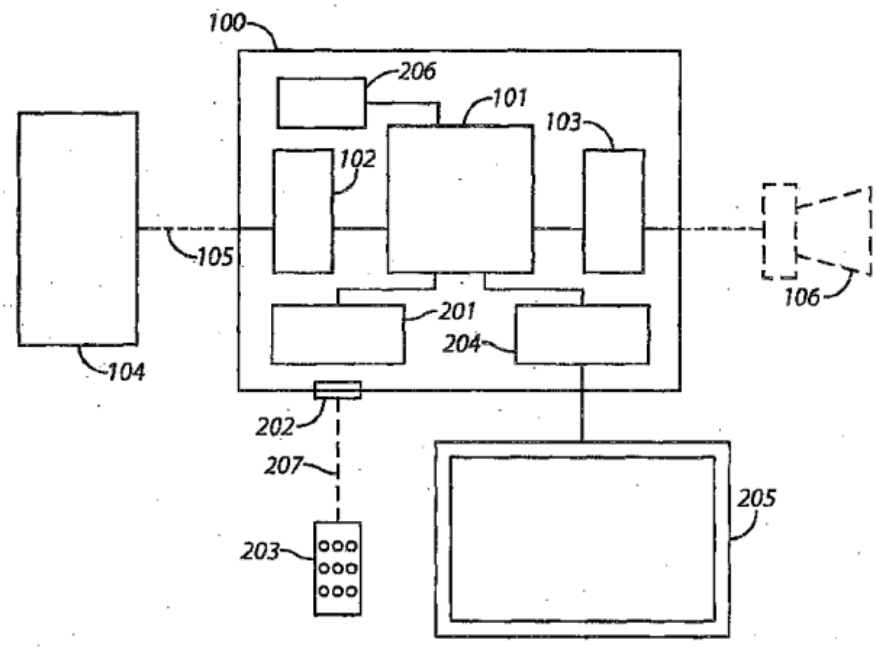


FIG. 2

Derwent Class Code(s): P85 (Education, cryptography, adverts); W03 (TV and Broadcast Radio Receivers); W05 (Alarms, Signalling, Telemetry and Telecontrol)

Derwent Manual Code(s): W03-A16E; W05-E03A5E

IPC: G09B-021/00; H04N-021/482; H04N-021/81; H04N-005/44; H04N-005/445; G11B-027/02; H04N-021/435; H04N-021/84; H04N-021/85; G09B-021/06

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP2587468-A2	01 May 2013	G09B-021/00	201330	Pages: 16	English
US2013107121-A1	02 May 2013	H04N-005/445	201330		English
EP2587468-A3	07 Aug 2013	G09B-021/00	201352		English
EP2629279-A1	21 Aug 2013	G09B-021/00	201355		English
CN103118303-A	22 May 2013	H04N-021/84	201367		Chinese
TW201337860-A	16 Sep 2013	G09B-021/06	201378		Chinese
US9214093-B2	15 Dec 2015	H04N-005/445	201582		English

Application Details and Date:

EP2587468-A2	EP187584	08 Oct 2012
US2013107121-A1	US284828	28 Oct 2011
EP2587468-A3	EP187584	08 Oct 2012
EP2629279-A1	EP166941	08 Oct 2012
CN103118303-A	CN10406404	17 Oct 2012
TW201337860-A	TW136872	05 Oct 2012
US9214093-B2	US284828	28 Oct 2011

Further Application Details:

EP2587468-A3	Related to	Application	EP166941
EP2629279-A1	Div ex	Application	EP187584
EP2629279-A1	Div ex	Patent	EP2587468

Priority Application Information and Date:

US284828	28 Oct 2011

Designated States:

EP2587468-A2:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME
EP2587468-A3:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME
EP2629279-A1:
(Regional): AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR

Cited Patent(s):

EP2587468-A3	EP2209308-A1	SONY UK LTD (SONY)	EDMUNDS T
	JP2010187157-A	FUNAI DENKI KK (FUDE)	TOKOSHIMA S, JP; MIYABE S, JP; OKAZAKI A, JP
EP2629279-A1	EP1865715-A1	SONY UK LTD (SONY)	WALLER A S
	JP2010187157-A	FUNAI DENKI KK (FUDE)	TOKOSHIMA S, JP; MIYABE S, JP; OKAZAKI A, JP
CN103118303-A	EP1865715-A1	SONY UK LTD (SONY)	WALLER A S

JP2003283937-A	CASIO COMPUTER CO LTD (CASK)	HOSAKA I
JP2010187157-A	FUNAI DENKI KK (FUDE)	TOKOSHIMA S, JP; MIYABE S, JP; OKAZAKI A, JP
US20070177062-A1		
WO2010099591-A1	CENT RECH INFORMATIQUE MONTREAL (REIN-Non-standard)	GAGNON L; CHAPDELAINE C; BYRNS D

Registro 33 de 42

Patent Number(s): US2013059542-A1; JP2013055543-A

Title: Information processing apparatus e.g. game device, for providing audio commentary of exhibitions for visually impaired persons in art museum, has program to identify transmitter as source of signal to perform predetermined process

Inventor Name(s): SHIMIZU T

Patent Assignee(s): NINTENDO CO LTD (NINT-C); NINTENDO CO LTD (NINT-C)

Derwent Primary Accession No.: 2013-D36416

Abstract: NOVELTY - The apparatus has an area identification program to identify a zone e.g. exhibition room (R11), where the apparatus is located. An audio wave characteristic measurement program measures reception status of a signal from a transmitter in the zone identified by the identification program. An identification program identifies a transmitter i.e. access point (71), as a source of the signal in which the reception status corresponds to a predetermined condition. A commentary audio replay program executes a predetermined process according to the transmitter identified by the replay program.

USE - Information processing apparatus i.e. portable terminal such as portable game device, for providing audio commentary of exhibitions for visually impaired persons in a target area i.e. art museum. Can also be used for a personal digital assistant (PDA), a mobile phone terminal, a smartphone, and Personal Handy-phone System (PHS), for use in event site and shopping center.

ADVANTAGE - The apparatus comprises a reception unit to receive the wireless signal transmitted from the access point, and the reception status measurement unit measures radio field strength of the signal from the access point as reception status of the signal, so that the user does not need to carry the apparatus separately from a communication device, thus improving user convenience and reducing facility investment, as separate device is not used as a transmitter. The apparatus ensures that the user does not need to perform operations to execute the predetermined process when the transmitter as the source of the signal in which the reception status corresponds to a predetermined condition is detected within the zone where the apparatus is located, as the predetermined process according to the transmitter, thus improving user-friendliness.

DETAILED DESCRIPTION - The signal is wireless local area network (LAN) signal, audio signal, radio frequency identification (RFID) signal and Bluetooth signal. INDEPENDENT CLAIMS are also included for the following:

(1) an information processing method

(2) a tangible storage medium comprising a set of instructions to perform information processing method.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a floor plan of an exhibition room that accommodates audio commentary.

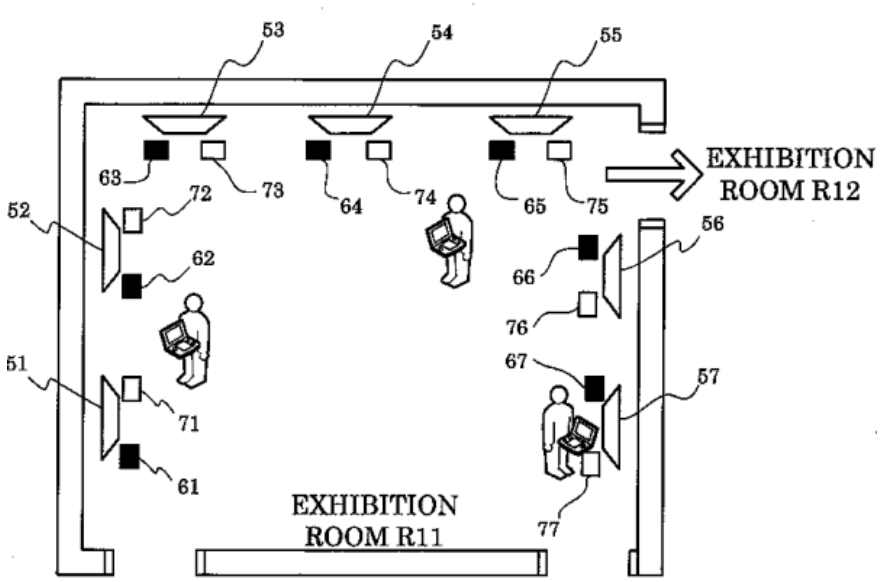
Exhibition rooms (R11, R12)

Exhibitions (51-57)

Plates (61-67)

Access points (71, 77)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems); W02 (Broadcasting, Radio and Line Transmission Systems); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-F03; T01-J18; T01-M06A1A; T01-N01A2C; T01-N01A2F; T01-N01D1A; T01-S03; T04-J01; T04-K03B; W01-A06B5A; W01-C01A5; W01-C01D3C; W01-C01G8; W01-C01P2; W01-C01R; W02-C05B; W04-X02C; W04-X03G7; W04-Y20

IPC: H04B-017/00; H04W-004/02

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2013059542-A1	07 Mar 2013	H04B-017/00	201319	Pages: 26	English
JP2013055543-A	21 Mar 2013	H04W-004/02	201321	Pages: 28	Japanese

Application Details and Date:

US2013059542-A1	US290349	07 Nov 2011
JP2013055543-A	JP193003	05 Sep 2011

Priority Application Information and Date:

JP193003	05 Sep 2011

Registro 34 de 42

Patent Number(s): FR2974438-A1

Title: Apparatus for assisting e.g. blind person to read and instantaneously translate text into voice, has microprocessor allowing user to rectify exposure before capturing photos to carry out rotation and to separate user from document

Inventor Name(s): PARIENTI R

Patent Assignee(s): PARIENTI R (PARI-Individual)

Derwent Primary Accession No.: 2012-N67477

Abstract: NOVELTY - The apparatus has a pocket casing (1) provided with a touch screen (2), where electronic components of the apparatus are managed by a microprocessor (3). A high definition camera (4) is associated with a telemetry measurement system (5) to capture text photos transmitted to an optical character recognition (OCR) and to a voice synthesis system when translational and angular framings are correct. The microprocessor allows a user to rectify exposure before capturing photos, by voice information, carry out rotation in clockwise/counter clockwise direction and separate the user from a document.

USE - Apparatus for assisting a blind person or a visually impaired person (all claimed) e.g. aged person or subnormal vision person, to read and instantaneously translate text into voice. Can also be used for assisting a person suffering from dyslexia or illiteracy, consumer, trainee, student, businessman and person willing to learn new language and tourist, to read and instantaneously translate text into voice.

ADVANTAGE - The configuration of the apparatus allows a sighted user or visually impaired person to easily and correctly capture picture of the text and to reproduce the text vocally in the original language of the text or in other language in real-time.

DETAILED DESCRIPTION - The pocket casing is a smartphone. The voice synthesis system vocalizes text into text source language or another language.

DESCRIPTION OF DRAWING(S) - The drawing shows a functional block diagram of a device for assisting in reading and instantaneous translation of text into voice.

Pocket casing (1)

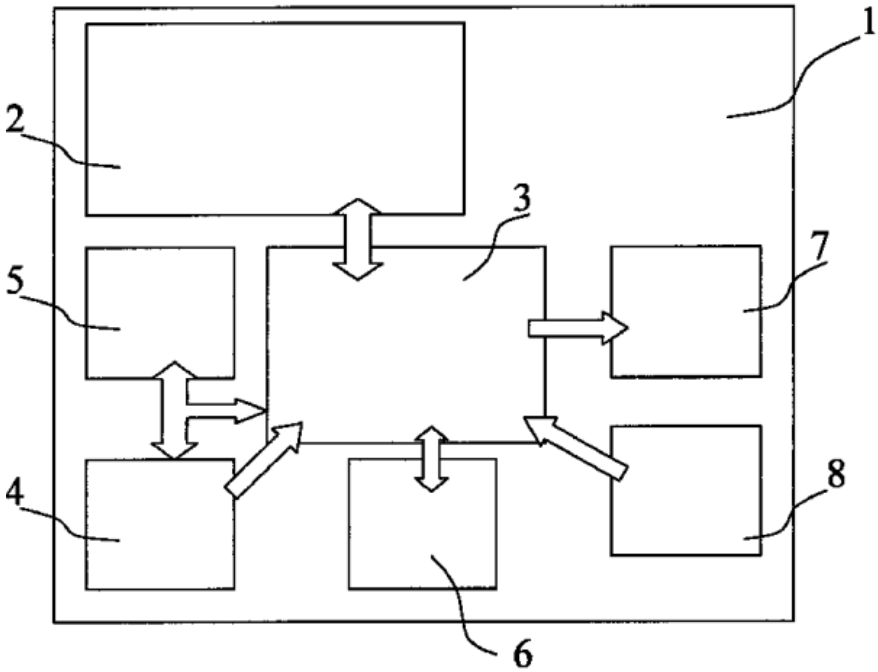
Touch screen (2)

Microprocessor (3)

High definition camera (4)

Telemetry measurement system (5)

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); P86 (Musical instruments, acoustics); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems); W04 (Audio/Video Recording and Systems)

Derwent Manual Code(s): T01-C08A; T01-J30A; T01-L02B; T04-D04; T04-F02A2; W01-C01B8H; W01-C01D3C; W01-C01G8; W01-C01P2; W01-C01Q6A; W01-C05B3D; W04-V

IPC: G09B-021/00; G10L-013/08

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
FR2974438-A1	26 Oct 2012	G09B-021/00	201273	Pages: 10	French

Application Details and Date:

FR2974438-A1	FR001218	19 Apr 2011

Priority Application Information and Date:

FR001218	19 Apr 2011

Registro 35 de 42

Patent Number(s): DE202012006008-U1

Title: Visitor-information and management-system for visitors of e.g. exhibitions, has data processing and transmission devices leased, issued and distributed by exhibitor, where contents are loaded, superimposed and overlaid on mobile device

Patent Assignee(s): BERTRAM S (BERT-Individual)

Derwent Primary Accession No.: 2012-M79621

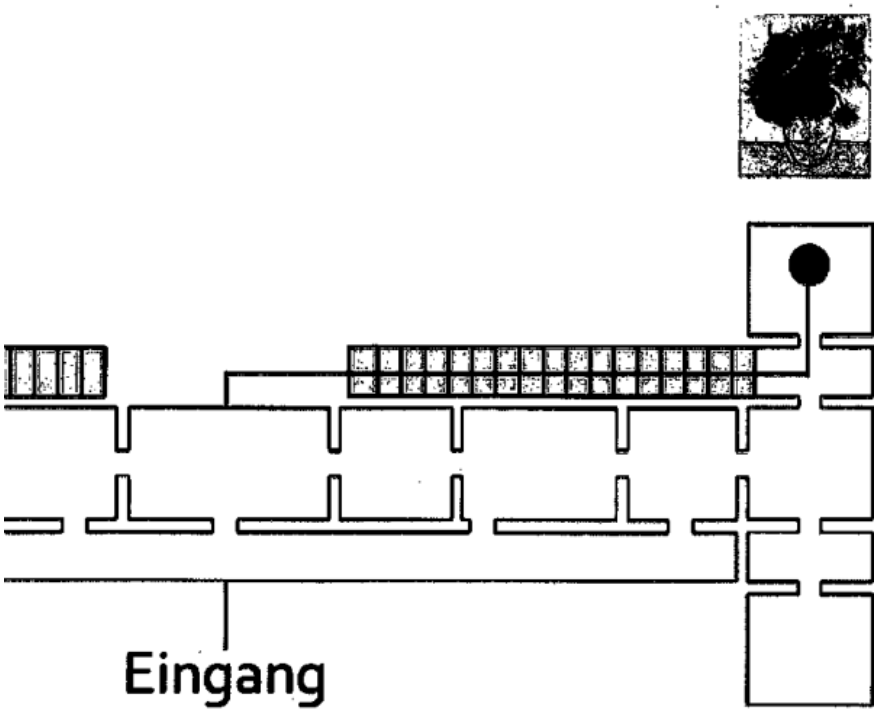
Abstract: NOVELTY - The system has a mobile data processing device e.g. smartphone, tablet and laptop, and a data transmission device leased, issued and distributed by an exhibitor in an exhibition. Augmented audiovisual contents e.g. texts, are loaded, superimposed and overlaid from an internet on the mobile data processing device by detecting image of works in the exhibition. The audiovisual contents are superimposed on a semi-permeable display in front eyes of a visitor in the exhibition by using augmented-reality-spectacles. The works are detected by the mobile data processing device.

USE - Visitor-information and management-system for visitors of museums, exhibitions, art galleries, art auctions, art fairs and art events based on augmented reality (all claimed). Can also be used for history and architecture.

ADVANTAGE - The works in the exhibition are detected by the mobile data processing device, thus avoiding the need for attachment of special marks at the works. The augmented audiovisual contents are loaded, superimposed and overlaid from the internet on the mobile data processing device by detecting image of the works in the exhibition such that the audiovisual content is perceived by hearing-impaired visitors, thus determining the information depth and velocity for the visitor and directly and visually highlighting details in the image in a screen of the mobile device. The design of the system avoids hygienic concerns during usage of headsets or audio-guides. The contents are automatically adjusted to language, age-based process, individual interests or advertising impressions of the user for financing the system or the exhibition based on stored preferences, individual usage behavior of a location or a residence place.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of works in a visitor-information and management-system in a museum. '(Drawing includes non-English language text)'

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J40C; T01-M02A1C; T01-M06A1; T01-N01A2; T01-N01D1B; T01-N01D2; W01-C01P2

IPC: G06Q-050/10

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
DE202012006008-U1	04 Oct 2012	G06Q-050/10	201268	Pages: 12	German

Application Details and Date:

DE202012006008-U1	DE20006008	20 Jun 2012

Priority Application Information and Date:

DE20006008	20 Jun 2012

Registro 36 de 42

Patent Number(s): EP2489342-A1

Title: Personal navigation assistant e.g. personal digital assistant, for use by visually impaired person, for purchasing food supplies, has terrestrial real-time locating system navigating navigational goal based on relative position to goal

Inventor Name(s): KLEIN J

Patent Assignee(s): ALCATEL LUCENT (COGE-C)

Derwent Primary Accession No.: 2012-K97545

Abstract: NOVELTY - The assistant (24) has a voice user interface (26) for establishing a navigational goal (30). A global navigation satellite system (22) navigates the navigational goal using a geospatial approximation of the navigational goal. A terrestrial real-time locating system navigates the navigational goal based on a relative position to the navigational goal. The navigational goal is defined as a position of an object that comprises a terrestrial transmitter (29) and a terrestrial receiver (28), where the object comprises a radio-frequency identification tag.

USE - Personal navigation assistant i.e. portable navigation device (PND) such as personal digital assistant (PDA) and smartphone, for use by visually impaired and physically-challenged persons for purchasing food supplies.

ADVANTAGE - The assistant comprises a speech synthesizer that allows a user to switch between two systems at the same time depending on circumstances. The assistant comprises a braille keyboard that allows the user to manually enter an order list.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method for operating a personal navigation assistant

(2) a computer program product comprising computer executable instructions for performing a method for operating a personal navigation assistant

(3) a data stream representative of a computer program comprising a set of instructions to perform a method for operating a personal navigation assistant.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a personal navigation assistant.

Global navigation satellite system (22)

Personal navigation assistant (24)

Voice user interface (26)

Terrestrial receiver (28)

Terrestrial transmitter (29)

Navigational goal (30)

Drawing:

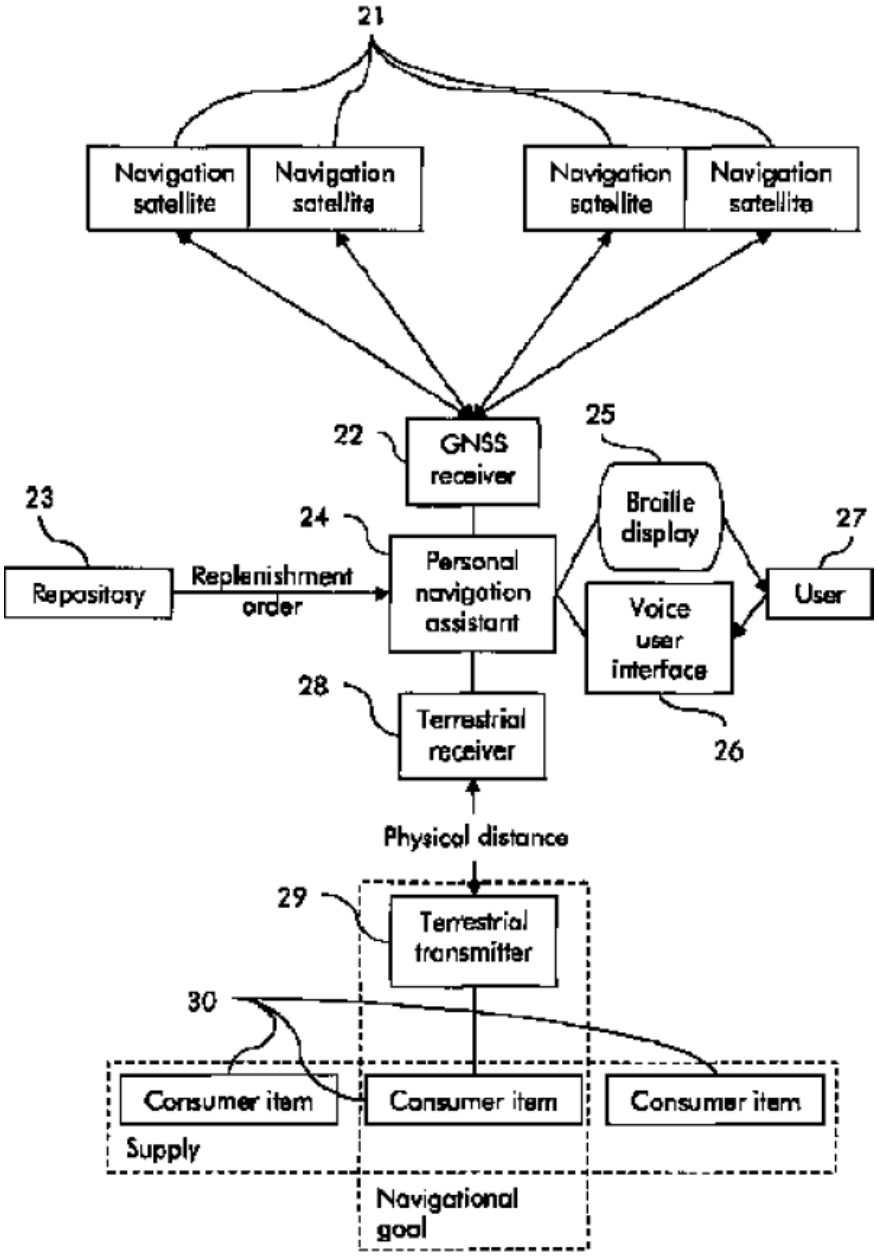


FIG 2

Derwent Class Code(s): P33 (Medical aids, oral administration); S02 (Engineering Instrumentation, recording equipment, general testing methods); S05 (Electrical Medical Equipment); T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems); W04 (Audio/Video Recording and Systems); W06 (Aviation, Marine and Radar Systems)

Derwent Manual Code(s): S02-B08C; S02-B08G; S05-K; T01-C08A; T01-J06A; T01-J12; T01-M06A1A; T01-S03; T04-K03B; W01-C01D3C; W01-C01G8A; W01-C01P2; W01-C01P7; W01-C01Q4; W04-V04A5; W04-V04C; W06-A03A5C; W06-A04B5C

IPC: A61H-003/06; G01C-021/20

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP2489342-A1	22 Aug 2012	A61H-003/06	201259	Pages: 9	English

Application Details and Date:

EP2489342-A1	EP290088	15 Feb 2011

Priority Application Information and Date:

EP290088	15 Feb 2011

Designated States:

EP2489342-A1:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME

Cited Patent(s):

EP2489342-A1	DE10121260-A1	SIEMENS AG (SIEI)	GIESSL O
	EP1313079-A2	KONINK PHILIPS ELECTRONICS NV (PHIG)	PIOTROWSKI T E
	EP1705459-A2	DEUT ZENT LUFT & RAUMFAHRT EV (DELF)	ANGERMANN M; ROBERTSON P; FIEBIG U; KAMMANN J
	US2006129308-A1	KATES L (KATE-Individual)	KATES L
	US2010241350-A1	CIOFFI J (CIOF-Individual); AGEE P (AGEE-Individual)	CIOFFI J; AGEE P

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Patent Number(s): US2011304558-A1; EP2398004-A1; US8451240-B2

Title: Character output i.e. alphanumeric character output, providing method for electronic device e.g. cellular phone, in 6-dot Braille system, involves providing tactile feedback for identifying next character

Inventor Name(s): PASQUERO J; WALKER D R

Patent Assignee(s): RES IN MOTION LTD (RIMR-C); RES IN MOTION LTD (RIMR-C)

Derwent Primary Accession No.: 2011-Q55745

Abstract: NOVELTY - The method involves detecting a sheet (702) i.e. Braille overlay sheet, corresponding to a set of characters i.e. Braille characters (704), on a touch-sensitive input device i.e. touch-sensitive display. A touch on the sheet is detected by the touch-sensitive input device. A next character output is determined. A tactile feedback for identifying a next character i.e. alphanumeric character, is provided in response to detemination of the touch associated with a location (1002) on the sheet, where the location is associated with the next character.

USE - Method for providing a character output i.e. alphanumeric character output, at an electronic device (claimed) e.g. portable electronic device such as pager, cellular phone, smartphone, wireless organizer, personal digital assistant and wirelessly enabled notebook computer, in a 6-dot Braille system. Can also be used for handheld electronic game device, digital photograph album and digital camera, and for an 8-dot Braille system.

ADVANTAGE - The sheet corresponds to the characters and the tactile feedback is provided to identify the character output, where the tactile feedback is utilized to facilitate identification of the next character, thus facilitating an output for a visually impaired user.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a computer-readable medium comprising a set of computer-readable instructions for providing a character output at an electronic device

(2) an electronic device comprising a processor.

DESCRIPTION OF DRAWING(S) - The drawing shows a front view of a portable electronic device including a touch-sensitive display in which a location of a touch on a sheet is indicated.

Portable electronic device (100)

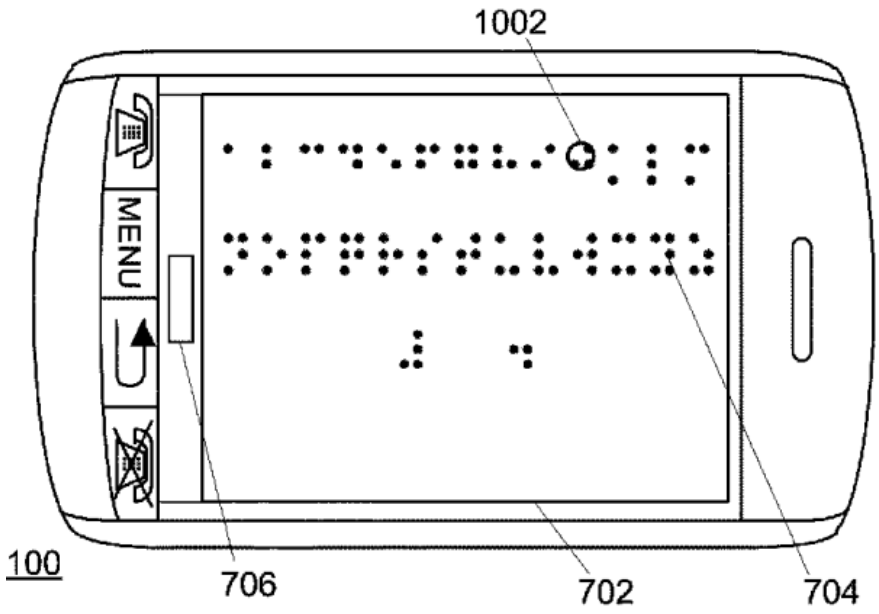
Sheet (702)

Braille characters (704)

Magnet (706)

Location (1002)

Drawing:



Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): T01-J11F; T01-M06A1; T01-S03; T04-F02A2; T04-F03; W01-C01B3; W01-C01D3C; W01-C01G8; W01-C01P2

IPC: G06F-003/041; B42D-001/04; G09B-001/08; G09B-021/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2011304558-A1	15 Dec 2011	G06F-003/041	201201	Pages: 12	English
EP2398004-A1	21 Dec 2011	G09B-021/00	201201		English
US8451240-B2	28 May 2013	G06F-003/041	201337		English

Application Details and Date:

US2011304558-A1	US814127	11 Jun 2010
EP2398004-A1	EP165744	11 Jun 2010
EP2398004-A1	EP165744	11 Jun 2010
US8451240-B2	US814127	11 Jun 2010

Priority Application Information and Date:

EP165744	11 Jun 2010
US814127	11 Jun 2010

Designated States:
EP2398004-A1:
(Regional): AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; SM; TR; BA; ME; RS

Cited Patent(s):

EP2398004-A1	US3965599-A	FOTO-CUBE INC (FOTO-Non-standard)	EBNER E C
	US4942275-A	ESI COMPANIES INC (ESII)	ADDY T E; SPEAKMAN W E
	US20090296341-A1		
	US20100079403-A1		
	US20100238053-A1		
	WO2003047007-A1	NOKIA CORP (OYNO)	TUOVINEN J
US8451240-B2	EP915411-A2		
	EP992953-A2	CANON KK (CANO)	KERONEN S R; YAP S; ROBERTSON P K; CHAMLEY C A; BRUCE S R
	GB2140943-A		
	US3813658-A		
	US3965599-A	FOTO-CUBE INC (FOTO-Non-standard)	EBNER E C
	US4631700-A		
	US4906988-A	RAND MCNALLY & CO (RAND-Non-standard)	COPELLA R A
	US4942275-A	ESI COMPANIES INC (ESII)	ADDY T E; SPEAKMAN W E
	US5450078-A	INTELLITOOLS INC (INTE-Non-standard)	KHALSA A S; SCHMITT D C; SILVA M J; LEE B P
	US5572573-A	US WEST TECHNOLOGIES INC (USWT-Non-standard)	SYLVAN L M; MARX A N
	US5841428-A	INTERTACTILE TECHNOLOGIES CORP (INTE-Non-standard)	JAEGER D; TWAIN K M
	US20010051329-A1		
	US20020163509-A1		
	US20030022701-A1		
	US20030071859-A1		
	US20030235452-A1		
	US20050030292-A1		
	US20050140497-A1		
	US20050206622-A1		
	US20060172266-A1		
	US20060181515-A1		
	US20060256090-A1		
	US20070013662-A1		
	US20070212668-A1		
	US20070254707-A1		
	US20080020356-A1		
	US20080067231-A1		
	US20080111798-A1		
	US20080122805-A1		
	US20090079698-A1		
	US20090237364-A1		
	US20090296341-A1		
	US20100055651-A1		
	US20100079403-A1		
	US20100182245-A1		
	US20100231550-A1		

US20100238053-A1		
US20100328052-A1		
US6636203-B1	PALM INC (PLMI)	WONG Y K; LEONARD C N; ALBANOWSKI K J
US6763995-B1	SONG J K (SONG-Individual)	SONG J K
US7091953-B1	OMNIBOARD INC (OMNI-Non-standard)	KRAMER O
US7479943-B1	PALMSOURCE INC (PALM-Non-standard)	COOK J; HAN A; LUNSFORD E M; WOODWORTH B
US6415138-B2	NOKIA MOBILE PHONES LTD (OYNO)	SIROLA J; JOKINEN T
US6545577-B2	YAP B T (YAPB-Individual)	YAP B T
US6667738-B2	VTECH COMMUNICATIONS LTD (VTEC-Non-standard)	MURPHY P A
US7184032-B2	XEROX CORP (XERO)	STOHRER C W; MEETZE M O; DEYOUNG D C
US7187394-B2	INT BUSINESS MACHINES CORP (IBMC)	CHANDANE S M
US7403191-B2	MICROSOFT CORP (MICT)	SINCLAIR M J
WO1991007715-A		
WO2003047007-A1	NOKIA CORP (OYNO)	TUOVINEN J
WO2005088425-A1	VISUAIDE INC (VISU-Non-standard)	COTE D; PEPIN G; GOMEZ L; NADEAU R; BLANCHETTE L; LEGAULT M; DESMARAIS J; EMOND P; BELANGER A; THIBAUDEAU D; DESBIENS D; LABBE D; LAGACE I; HAMEL P

Cited Article(s):

US8451240-B2 Extended European Search Report dated Jun. 28, 2011, issued from the corresponding EP patent application No. 10165744.3.

Rantala et al., "Methods for Presenting Braille Characters on a Mobile Device with a Touchscreen and Tactile Feedback", IEEE Transactions on Haptics, vol. 2, No. 1, Jan.-Mar. 2009, pp. 28-39.

Ananthaswamy, "Vibrating Touch Screen Puts Braille at the Fingertips", http://www.newscientist.com/article/mg20127015.700-vibrating-touch-screen-puts-braille-at-the-fingertrips.html, Mar. 31, 2009, 1 page.

"Standards Group Pushes for Electronic Braille Reader", http://news.cnet.com/Standards-group-pushes-for-electronic-braille-rader/2100-1023_3-245933.html, Sep. 19, 2000, 2 pages.

"Technology", American Foundation for the Blind, http://www.afb.org/Section.asp?SectionID=4&TopicID-31$DocumentID=1282, published at least as early as Dec. 2009, 2 pages.

"Braille Stick-Ons_PC", www.Issproducts.com/products/3900/braille-writing, published at least as early as Dec. 2009, pp. 1-2.

McGookin, David et al., Investigating Touchscreen Accessibility for People with Visual Impairments, NordiCHI 2008: Using Bridges, Oct. 18-22, Lund, Sweden, 2008.

Printout of "T3 Talking Tactile Technology, Royal National College for the Blind"; retrieved on Jun. 16, 2009 from http://www.mcb.ac.uk/t3/index.html.

Honeywell Manual, "Hall Effect Sensing and Application", U.S. Appl. No. 12/494,566, filed Sep. 28, 2012.

Printout of "Dictionary, Associate", U.S. Appl. No. 12/494,566, filed Sep. 28, 2012.

Printout of "East Search History (Prior Art)", U.S. Appl. No. 12/494,566, filed Apr. 26, 2012.

Printout of "Magnetic field"; retrieved on Sep. 4, 2012 from http://en.wikipedia.org/wiki/Magnetic_field.

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Patent Number(s): US2011052015-A1; US8548193-B2

Title: Method for electronically magnifying e.g. page of book with camera phone, involves magnifying corresponding portion of full view image, and displaying magnified portion of full view image

Inventor Name(s): SAUND E; LEE L C; KLETTER D

Patent Assignee(s): PALO ALTO RES CENT INC (PRCA-C); PALO ALTO RES CENT INC (PRCA-C)

Derwent Primary Accession No.: 2011-C15658

Abstract: NOVELTY - The method involves obtaining a full view image of a target object i.e. document, by using an electronic imaging device, and moving the imaging device in proximity to a portion of the target object. A key image of the portion of the target object is obtained, and the key image is matched to a corresponding portion of the full view image by using fingerprint matching and/or visual motion tracking. The corresponding portion of the full view image is magnified, and the magnified portion of the full view image is displayed.

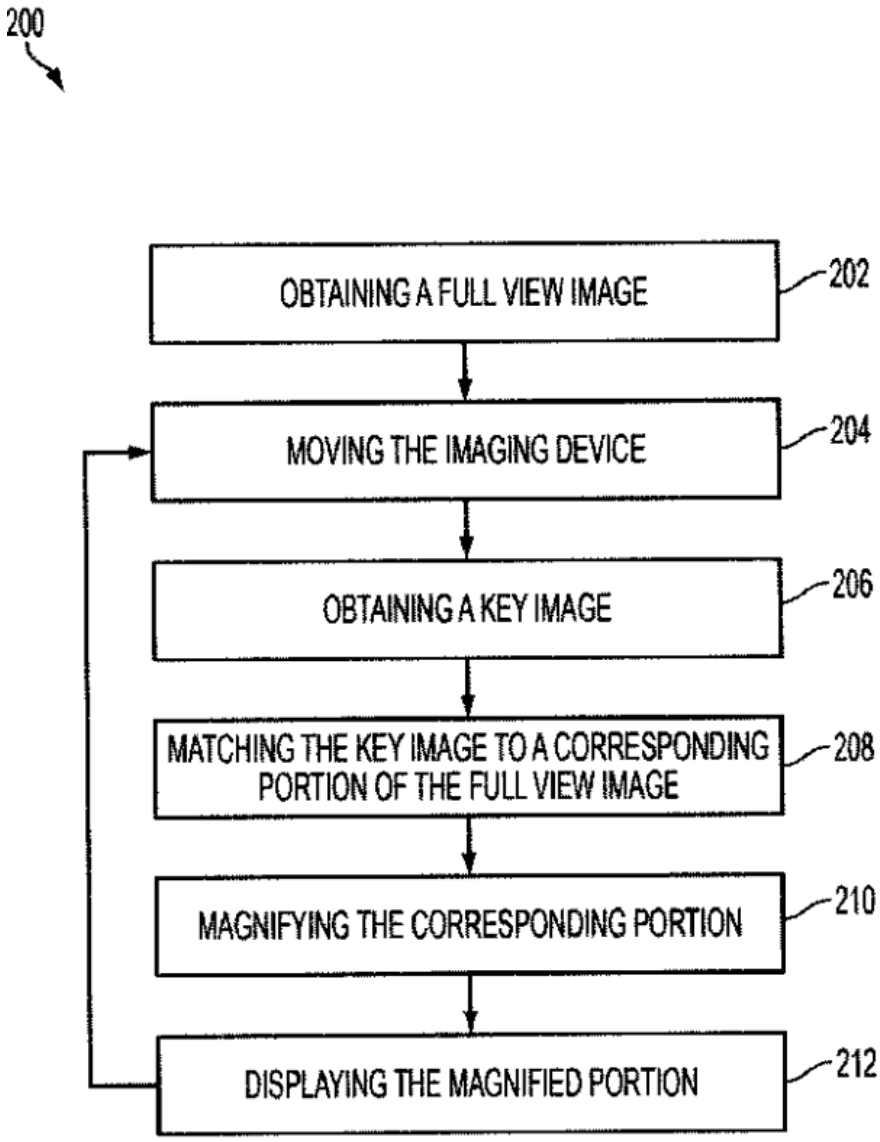
USE - Method for electronically magnifying a target object e.g. document (claimed) such as page of a book and medicine bottle label, with an electronic imaging device e.g. camera phone, digital camera and iPhone (RTM: Internet and multimedia-enabled smartphone), for a visually impaired person. Can also be used for recipes, menus, food labels, correspondences, and magazines.

ADVANTAGE - The method allows displaying a portion of a high quality image corresponding to a low quality image in a cost effective manner, such that a visually impaired person is able to view the image.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an apparatus for electronically magnifying a target object.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow diagram illustrating a method for electronically magnifying a target object with an imaging device.

Drawing:



Derwent Class Code(s): P85 (Education, cryptography, adverts); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): W01-C01D3C; W01-C01G8; W01-C01P6A; W01-C01P6C

IPC: G06K-009/00; G09G-005/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2011052015-A1	03 Mar 2011	G06K-009/00	201121	Pages: 18	English
US8548193-B2	01 Oct 2013	G06K-009/00	201364		English

Application Details and Date:

US2011052015-A1	US553207	03 Sep 2009
US8548193-B2	US553207	03 Sep 2009

Priority Application Information and Date:

US553207	03 Sep 2009

Cited Patent(s):

US2011052015-A1	US5465303-A	AEROFLEX SYSTEMS CORP (AERO-Non-standard)	LEVISON L L; GOLDBERG P B; STANEK S D
	US5465353-A	RICOH KK (RICO); RICOH CORP (RICO)	HART P E; HULL J J
	US5491760-A	XEROX CORP (XERO)	WITHGOTT M M; HUTTENLOCHER D P; BAGLEY S C; HALVORSEN P K; BLOOMBERG D S; KAPLAN R M; CASS T A; RAO R R
	US5613014-A	MARTIN MARIETTA CORP (MARM)	ESHERA M A; SANDERS R E
	US5850476-A	XEROX CORP (XERO)	CHEN F R; TUKEY J W
	US6041133-A	INT BUSINESS MACHINES CORP (IBMC)	CALIFANO A; COLVILLE S E; GERMAIN R S
	US20060104484-A1		
	US20060259524-A1		
	US20060285772-A1		
	US20080219560-A1		

	US20080317278-A1		
	US20090176566-A1		
	US20090244323-A1		
	US20090324026-A1		
	US20090324087-A1		
	US20090324100-A1		
	US20100008589-A1		
	US20110173103-A1		
	US20110197121-A1		
	US7844594-B1	SURFWAX INC (SURF-Non-standard)	HOLT T D; BURKE L S
	US7359532-B2	ACHARYA T (ACHA-Individual); BHATTACHARYA B B (BHAT-Individual); BISWAS A (BISW-Individual); BHOWMICK P (BHOW-Individual); BISHNU A (BISH-Individual); DAS S (DASS-Individual); KUNDU M K (KUND-Individual); MURTHY C A (MURT-Individual); NANDY S C (NAND-Individual)	ACHARYA T; BHATTACHARYA B B; BISWAS A; BHOWMICK P; BISHNU A; DAS S; KUNDU M K; MURTHY C A; NANDY S C
	US8086039-B2	PALO ALTO RES CENT INC (PRCA)	KLETTER D
	WO2008114683-A1	NIKON CORP (NIKR)	ABE H
US8548193-B2	EP1850270-A1	LEUVEN RES&DEV (UYLN); TOYOTA MOTOR EURO NV (TOYT); EIDGENOESSISCHE TECH HOCHSCHULE ZUERICH (ETHE)	FUNAYAMA R; YANAGIHARA H; VAN GOOL L; TUYTELAARS T; BAY H
	US5465303-A	AEROFLEX SYSTEMS CORP (AERO-Non-standard)	LEVISON L L; GOLDBERG P B; STANEK S D
	US5465353-A	RICOH KK (RICO); RICOH CORP (RICO)	HART P E; HULL J J
	US5491760-A	XEROX CORP (XERO)	WITHGOTT M M; HUTTENLOCHER D P; BAGLEY S C; HALVORSEN P K; BLOOMBERG D S; KAPLAN R M; CASS T A; RAO R R
	US5613014-A	MARTIN MARIETTA CORP (MARM)	ESHERA M A; SANDERS R E
	US5850476-A	XEROX CORP (XERO)	CHEN F R; TUKEY J W
	US6041133-A	INT BUSINESS MACHINES CORP (IBMC)	CALIFANO A; COLVILLE S E; GERMAIN R S
	US20060104484-A1		
	US20060259524-A1		
	US20060285772-A1		
	US20080219560-A1		
	US20080317278-A1		
	US20090176566-A1		
	US20090244323-A1		
	US20090324026-A1		
	US20090324087-A1		
	US20090324100-A1		
	US20100008589-A1		
	US20110173103-A1		
	US20110197121-A1		
	US7844594-B1	SURFWAX INC (SURF-Non-standard)	HOLT T D; BURKE L S
	US7359532-B2	ACHARYA T (ACHA-Individual); BHATTACHARYA B B (BHAT-Individual); BISWAS A (BISW-Individual); BHOWMICK P (BHOW-Individual); BISHNU A (BISH-Individual); DAS S (DASS-Individual); KUNDU M K (KUND-Individual); MURTHY C A (MURT-Individual); NANDY S C (NAND-Individual)	ACHARYA T; BHATTACHARYA B B; BISWAS A; BHOWMICK P; BISHNU A; DAS S; KUNDU M K; MURTHY C A; NANDY S C
	US8086039-B2	PALO ALTO RES CENT INC (PRCA)	KLETTER D
	WO2008114683-A1	NIKON CORP (NIKR)	ABE H

Cited Article(s):

US2011052015-A1 Nakai et al., "Camera-based document image retrieval as voting for partial signatures of projective invariants." Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on. IEEE, 2005.

US8548193-B2 Nakai et al., "Camera-based document image retrieval as voting for partial signatures of projective invariants." Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on. IEEE, 2005.

"Business Collaboration", Jan. 16, 2008, pp. 1-2, http://web.archive.org/web/2008/0116032852/http://web.exostar.com/solutions/collaborati . . .

"Workshare Professional", Mar. 29, 2009, pp. 1-2, http://web.archive.org/web/20090329082245/http://www.workshare.com/products/wsprofe . . .

Acrobat Professional, Adobe Systems Inc., Nov. 28, 2009, http://web.archive.org/web/20091128011910/http://www.adobe.com/products/acrobatpro/.

Baumberg, "Reliable Features Matching across Widely Separated Views" In Conference on Computer Vision and Pattern Recognition, vol. 1, pp. 774-781, 2000.

Brown et al., "Invariant Features from Interest Point Groups." In British Machine Vision Conference, BMVC 2002, Cardiff, Wales, pp. 656-665 (here typed as 253-262), Sep. 2002.

Carneiro et al., "Multi-Scale Phase-based Local Features" In Conference on Computer Vision and Pattern Recognition, vol. 1, pp. 736-743, 2003.

Compare PDF, AKS Labs, Oct. 12, 2004, http://web.archive.org/web/2004101204134://http://www.compare-pdf.com/.

Diff PDF, AJD Software, Jan. 24, 2006; http://www.supershareware.com/diff-pdf-free/software/.

Eddins, Steve, "Intensity-Weighted Centroids", The Mathworks, Aug. 31, 2007, pp. 1-4, http://blogs.mathworks.com/steve/2007/08/31/itensity-weighted-centroids.

Florack et al., "General intensity transformations and differential invariants," In Journal of Mathematical Imaging and Vision, vol. 4, No. 2, pp. 171-187, May 1994.

Freeman et al., "The Design and Use of Steerable Filters" Transactions on Pattern Analysis and Machine Intelligence, vol. 13, pp. 891-906, 1991.

Harris et al., "A Combined Corner and Edge Detector." Proceedings of the Alvey Vision Conference, pp. 147-151, 1988.

Iwamura et al., Improvement of Retrieval Speed and Required Amount of Memory for Geometric Hashing by Combining Local Invariants, Osaka

Prefecture University, Japan, 10 pages, Proc. BMVC2007 (Sep. 2007).

Kadir et al., "An Affine Invariant Salient Region Detector." Computer Vision_ECCV 2 004, pp. 228-241.

Kletter, Detection of duplicate document content using two-dimensional visual fingerprinting, U.S. Appl. No. 12/907,226, filed Oct. 19, 2010.

Kletter, Finding similar content in a mixed collection of presentation and rich document content using two-dimensional visual fingerprints, U.S. Appl. No. 12/907,251, filed Oct. 19, 2010.

Learn Acrobat 9_Comparing two PDF documents / Adobe TV, Dec. 20, 2009, pp. 1-8, http://web.archive.org/web/20091220080445/http://tv.adobe.com/watch/learn/-acrobat-9/co . . .

Ledwich et al., "Reduced SIFT Features for Image Retrieval and Indoor Localization." IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 19, No. 5, May 1997.

Lepetit et al., "Randomized Trees for Keypoint Recognition." Proceedings IEEE Computer Society Conference on Computer Vision and Pattern Recognition CVPR05, vol. 2, pp. 775-781, 2005.

Lepetit et al., "Keypoint recognition using randomized trees", IEEE-PAMI, vol. 28, No. 9, pp. 1465-1479,Sep. 2006.

Lepetit et al., "Point Matching as a Classification Problem for Fast and Robust Object Pose Estimation." In Conference on Computer Vision, pp. 128-142, Copenhagen, 2002.

Lepetit et al., "Towards Regognizing Feature Points using Classification Trees." Technical Report IC/2004/74 EPFL, 2004.

Lindeberg et al., "Feature Detection with Automatic Scale Selection." International Journal of Computer Vision, vol. 30, No. 2, pp. 79-116, 1998.

Lowe, "Distinctive Image Features from Scale-Invariant Keypoints." International Journal of Computer Vision, vol. 60, No. 2, pp. 91-110, 2004.

Mikolajczyk et al., "A performance Evaluation of Local Descriptors." In Conference on Computer Vision and Pattern Recognition, pp. 257-263, Jun. 2003, (paper shows a draft date of Feb. 23, 2005).

Mikolajczyk et al., "An Affine Invariant Interest Point Detector." In European Conference on Computer Vision and Pattern Recognition, vol. 1, pp. 128-142, 2002.

Nakai et al., Hashing with Local Combinations of Feature Points and Its Application to Camera-Based Document Image Retrieval_Retrieval in 0.14 Second from 10,000 Pages_, Graduate School of Engineering, Osaka Prefecture University, Japan, pp. 87-94, , Proc. First International Workshop on Camera-Based Document Analysis and Recognition (CBDAR2005), pp. 87-94 (Aug. 2005).

Nakai et al., Use of Affine Invariants in Locally Likely Arrangement Hashing for Camera-Based Document Image Retrieval, Graduate School of Engineering, Osaka Prefecture University, Japan, pp. 1-12, Lecture Notes in Computer Science (7th International Workshop DAS2006), 3872, pp. 541-552 (Feb. 2006).

Neuwirth et al., "Flexible Diff-ing in a collaborative Writing System," Carnegie Mellon University, Pittsburgh, PA 15213, CSCW 92 Proceedings November, pp. 147-154.

Nuance, Comparing PDF Documents, 2002-2010 Nuance Communications, Inc., Jul. 7, 2009, pp. 1-2.

Pilet et al., "Fast Non-Rigid Surface Detection, Registration and Realistic Augmentation." International Journal of Computer Vision, Springer 2007.

Schaffalitzky et al., "Multi-View Matching for Unordered Image Sets or How do I Organize My Holiday Snaps" In European Conference on Computer Vision, vol. 1, pp. 414-431, 2002.

Schmid et al., "Local Greyvalue Invariants for Image Retrieval." IEEE Transaction on Pattern Analysis and Machine Intelligence, vol. 19, No. 5, May 1997.

Vaibhac, Compare Documents Side-By-Side in Excel and Word, Apr. 9, 2008, pp. 1-2.

Viola et al., "Rapid object detection using a boosted cascade of simple features." In Proceedings of Computer Vision and Pattern Recognition CVPR, vol. I, pp. 511-518, 2001.

Workshare Professional, WorkShare Inc., Apr. 15, 2005, http://web.archive.org/web/20050415102858/http://www.workshare.com/products/wsprofessional/.

Yan Ke et al., "PCA-SIFT: A More Distinctive Representation for Local Image Descriptors." In Conference on Computer Vision and Pattern Recognition, pp. 111-119, 2000.

"AJC Diff", Jun. 19, 2008, http://web.archive.org/web/20080619081259/http://www.ajcsoft.com/ProductsAJCDiff.php.

Eisenberg, A. "The Magnifying Glass Gets an Electronic Twist". May 25, 2008, http://www.nytimes.com/2008/05/25/technology/25novel.html?r=3&ref=technology&oref=slogin&oref=slogin&oref=slogin 2 pages.

GW Micro-Catalog-Magnifiers_Portable SenseView Duo. https://www.gwmicro.com/Catalog/Magnifiers/?moreInfo=8131-001-Duo 1 page.

GW Micro-Catalog-Magnifiers_Portable SenseView P430. https://www.gwmicro.com/Catalog/Madnifiers/?moreInfo=8131-001 1 page.

QuickLook. http://www.freedomvision.net/1%20QuickLook.html 2 pages.

QuickLook Classic. http://www.freedomvision.net/1%20QuickLook%20Basic.html 3 pages.

QuickLook Focus. http://wwww.freedomvision.net/1%20QuickLook%20Focus.html 3 pages.

Nakai et al. "Camera-Based Document Image Retrieval as Voting for Partial Signatures of Projective Invariants". Proceedings of the 2005 Eight International Conference on Document Analysis and Recognition (ICDAR'05) IEEE, (c) 2005, 5 pages.

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Patent Number(s): US2010309147-A1; WO2010144201-A2; WO2010144201-A3; EP2440991-A2; KR2012032012-A; KR2012032013-A; AU2010259191-A1; AU2012200071-A1; AU2012200073-A1; KR2012047257-A; EP2458492-A2; EP2458493-A2; JP2012113730-A; KR2012061064-A; JP2012138096-A; EP2458493-A3; EP2458492-A3; JP2012529683-W; HK1169188-A0; AU2012200071-B2; US8493344-B2; AU2012200073-B2; JP5451789-B2; AU2010259191-B2; KR1442929-B1; KR1509870-B1; JP5812988-B2; KR1591450-B1; KR2016018839-A

Title: Method for providing accessibility of e.g. notebook computer to visually-impaired person, involves navigating in user interface elements by detecting user interface navigation gesture, after changing navigation unit type

Inventor Name(s): FLEIZACH C B; SEYMOUR E T; HUGHES G F; HUDSON R D; FLEIZACH C; SEYMOUR E; HUGHES G; HUDSON R; FREIZACH C B; CHRISTOPHER B F; GREGORY F H; REGINALD D H

Patent Assignee(s): FLEIZACH C B (FLEI-Individual); SEYMOUR E T (SEYM-Individual); APPLE INC (APPY-C); APPLE INC (APPY-C); APPLE INC (APPY-C); APPLE COMPUTER INC (APPY-C); APPLE INC (APPY-C); APPLE COMPUTER INC (APPY-C)

Derwent Primary Accession No.: 2010-Q09815

Abstract: NOVELTY - The user interface navigation gesture and navigation setting gesture are detected by finger on touch-sensitive surface of portable multifunctional device (100), to navigate user interface elements and to change the navigable unit type respectively. The accessibility information of the changed navigable unit type including characters, words, sentences, lines or pages, is generated. User interface navigation gesture is detected by operating finger on touch-sensitive surface, after changing the navigation unit type to navigate through user interface elements.

USE - Method for providing accessibility of electronic device (claimed) such as notebook computer to visually-impaired person. Can also be used in personal digital assistant (PDA), music player, Ipod (RTM: Portable media player) and iPhone (RTM: Internet and multimedia-enabled smartphone), etc.

ADVANTAGE - User interface navigation gesture is detected by operating finger on touch-sensitive surface of portable multifunctional device, after changing the navigation unit type to navigate through user interface elements. Hence the touch-based accessibility process of multifunctional device can be performed effectively and rapidly. Cognitive burden of the visually impaired person while operating the portable multifunctional device is reduced reliably. Unnecessary power consumption of portable multifunctional device and increase in battery-charging time can be reduced reliably. Satisfaction level of visually-impaired person with respect to the accessibility of portable multifunctional device is improved reliably.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) accessible electronic device;

(2) computer readable storage medium storing program for providing accessibility to accessible electronic device; and

(3) graphical user interface on accessible electronic device.

DESCRIPTION OF DRAWING(S) - The drawing shows a functional block diagram of the portable multifunctional device.

Portable multifunctional device (100)

Memory (102)

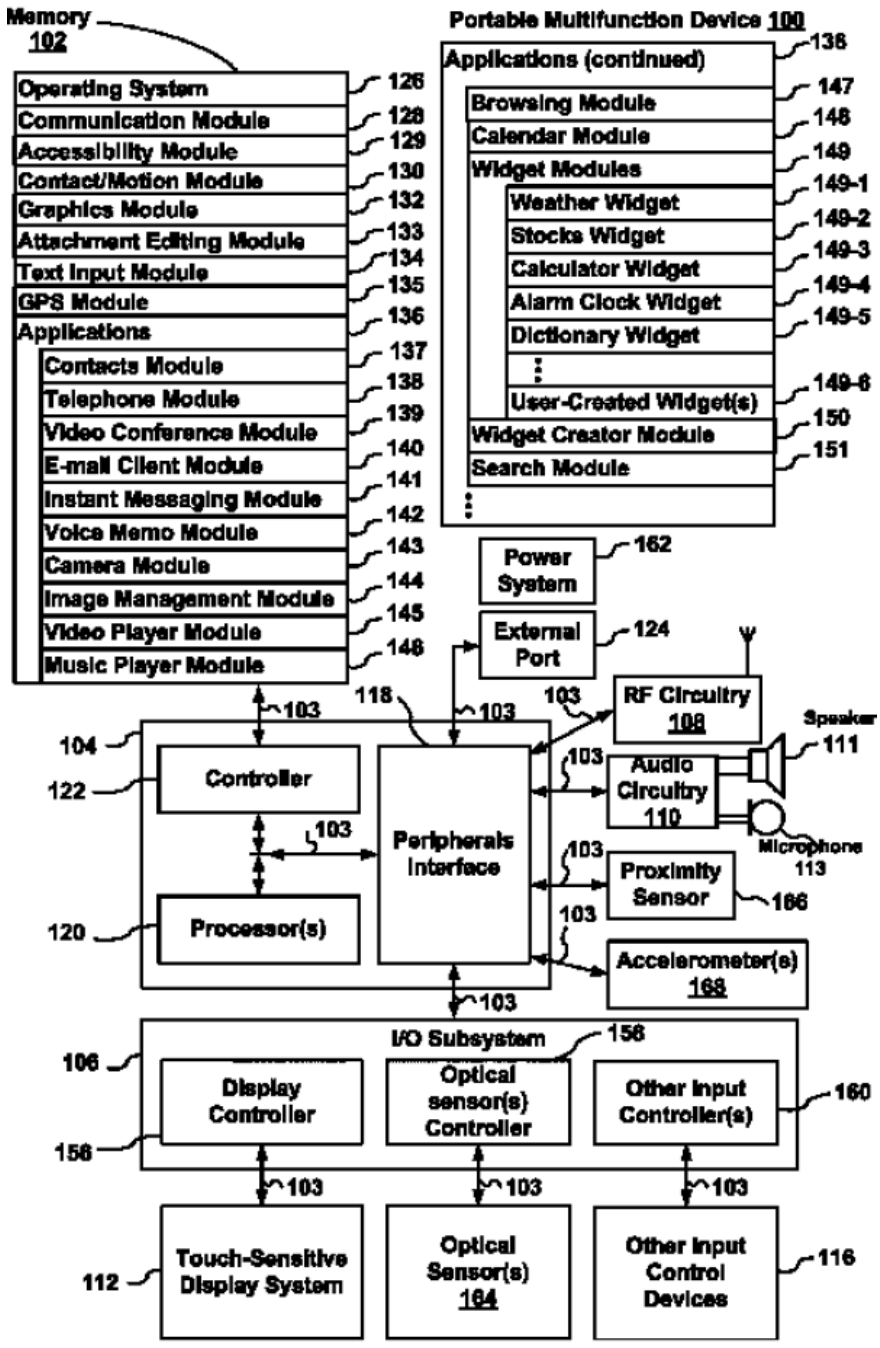
Communication module (128)

Graphics module (132)

Text input module (134)

Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The portable multifunctional device is connected to communication system operated in accordance with Bluetooth, Wi-Fi, EDGE and WiMax standards.

Drawing:



Derwent Class Code(s): T01 (Digital Computers); T04 (Computer Peripheral Equipment)

Derwent Manual Code(s): T01-C03; T01-F04; T01-J12; T01-M06A1; T01-N02B1D; T01-S03; T04-F02A

IPC: G06F-003/033; G06F-003/041; G06F-003/048; G06F-003/03; G06F-003/14; G06F-003/01; G06F-000/00; G06F-003/0488; G06F-003/0481; G06F-003/0484; G06F-003/16

Patent Details:

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US2010309147-A1	09 Dec 2010	G06F-003/041	201102	Pages: 123	English
WO2010144201-A2	16 Dec 2010	G06F-003/048	201102		English
EP2440991-A2	18 Apr 2012	G06F-003/048	201227		English
KR2012032012-A	04 Apr 2012		201228		
AU2010259191-A1	02 Feb 2012	G06F-003/048	201230		English
AU2012200071-A1	02 Feb 2012	G06F-003/048	201235		English
KR2012047257-A	11 May 2012		201235		
EP2458492-A2	30 May 2012	G06F-003/048	201236		English
EP2458493-A2	30 May 2012	G06F-003/048	201236		English
JP2012113730-A	14 Jun 2012	G06F-003/041	201239	Pages: 190	Japanese
KR2012061064-A	12 Jun 2012		201242		
EP2458493-A3	08 Aug 2012	G06F-003/048	201252		English
EP2458492-A3	07 Nov 2012	G06F-003/048	201274		English
JP2012529683-W	22 Nov 2012	G06F-003/041	201277	Pages: 194	Japanese
HK1169188-A0	18 Jan 2013	G06F-000/00	201330		English
AU2012200071-B2	04 Jul 2013	G06F-003/048	201346		English
US8493344-B2	23 Jul 2013	G06F-003/041	201348		English
JP5451789-B2	26 Mar 2014	G06F-003/041	201422	Pages: 170	Japanese
AU2010259191-B2	03 Apr 2014	G06F-003/048	201430		English
KR1442929-B1	24 Sep 2014	G06F-003/048	201467		
KR1509870-B1	08 Apr 2015	G06F-003/048	201527		
JP5812988-B2	17 Nov 2015	G06F-003/041	201576	Pages: 170	Japanese
KR1591450-B1	11 Feb 2016		201623		English
KR2016018839-A	17 Feb 2016		201625		English

Application Details and Date:

US2010309147-A1	US565745	23 Sep 2009
WO2010144201-A2	WOUS034109	07 May 2010
WO2010144201-A3	WOUS034109	07 May 2010
EP2440991-A2	EP719502	07 May 2010
KR2012032012-A	KR701628	07 May 2010
KR2012032013-A	KR701631	07 May 2010
AU2010259191-A1	AU259191	07 May 2010
AU2012200071-A1	AU200071	05 Jan 2012
AU2012200071-A1	AU200071	05 Jan 2012
AU2012200073-A1	AU200073	05 Jan 2012
AU2012200073-A1	AU200073	05 Jan 2012
KR2012047257-A	KR703523	07 May 2010
EP2458492-A2	EP154609	07 May 2010
EP2458493-A2	EP154613	07 May 2010
JP2012113730-A	JP024483	07 Feb 2012
KR2012061064-A	KR700663	09 Jan 2012
JP2012138096-A	JP024484	07 Feb 2012
EP2458493-A3	EP154613	07 May 2010
EP2458492-A3	EP154609	07 May 2010
JP2012529683-W	JP513959	07 May 2010
HK1169188-A0	HK109762	04 Oct 2012
AU2012200071-B2	AU200071	05 Jan 2012
AU2012200071-B2	AU200071	05 Jan 2012
US8493344-B2	US565745	23 Sep 2009
AU2012200073-B2	AU200073	05 Jan 2012
AU2012200073-B2	AU200073	05 Jan 2012
JP5451789-B2	JP024483	07 Feb 2012
AU2010259191-B2	AU259191	07 May 2010
KR1442929-B1	KR700663	07 May 2010
KR1509870-B1	KR701628	07 May 2010
JP5812988-B2	JP513959	07 May 2010
KR1591450-B1	KR701631	07 May 2010
KR2016018839-A	KR702541	07 May 2010

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US2010309147-A1	Provisional	Application	US184825P
EP2440991-A2	PCT application	Application	WOUS034109
EP2440991-A2	Related to	Application	EP154609
EP2440991-A2	Related to	Application	EP154613
EP2440991-A2	Based on	Patent	WO2010144201
KR2012032012-A	PCT application	Application	WOUS034109
KR2012032012-A	Div ex	Application	KR700663
KR2012032012-A	Based on	Patent	WO2010144201
KR2012032013-A	PCT application	Application	WOUS034109

KR2012032013-A	Div ex	Application	KR700663
KR2012032013-A	Based on	Patent	WO2010144201
AU2010259191-A1	PCT application	Application	WOUS034109
AU2010259191-A1	Based on	Patent	WO2010144201
AU2012200071-A1	Div ex	Application	WOUS034109
AU2012200073-A1	Div ex	Application	WOUS034109
KR2012047257-A	PCT application	Application	WOUS034109
KR2012047257-A	Div ex	Application	KR700663
KR2012047257-A	Based on	Patent	WO2010144201
EP2458492-A2	Div ex	Application	EP719502
EP2458492-A2	Div ex	Patent	EP2440991
EP2458493-A2	Div ex	Application	EP719502
EP2458493-A2	Div ex	Patent	EP2440991
JP2012113730-A	Div ex	Application	JP513959
KR2012061064-A	PCT application	Application	WOUS034109
KR2012061064-A	Based on	Patent	WO2010144201
JP2012138096-A	Div ex	Application	JP513959
EP2458493-A3	Div ex	Application	EP719502
EP2458493-A3	Div ex	Patent	EP2440991
EP2458492-A3	Div ex	Application	EP719502
EP2458492-A3	Div ex	Patent	EP2440991
JP2012529683-W	PCT application	Application	WOUS034109
JP2012529683-W	Based on	Patent	WO2010144201
HK1169188-A0	PCT application	Application	WOUS034109
HK1169188-A0	Based on	Patent	WO2010144201
HK1169188-A0	Related to	Patent	EP2440991
AU2012200071-B2	Div ex	Application	WOUS034109
US8493344-B2	Provisional	Application	US184825P
AU2012200073-B2	Div ex	Application	WOUS034109
JP5451789-B2	Previous Publ.	Patent	JP2012113730
AU2010259191-B2	PCT application	Application	WOUS034109
AU2010259191-B2	Based on	Patent	WO2010144201
KR1442929-B1	PCT application	Application	WOUS034109
KR1442929-B1	Based on	Patent	WO2010144201
KR1442929-B1	Previous Publ.	Patent	KR2012061064
KR1509870-B1	PCT application	Application	WOUS034109
KR1509870-B1	Div ex	Application	KR700663
KR1509870-B1	Based on	Patent	WO2010144201
JP5812988-B2	PCT application	Application	WOUS034109
JP5812988-B2	Based on	Patent	WO2010144201
JP5812988-B2	Previous Publ.	Patent	JP2012529683
KR1591450-B1	PCT application	Application	WOUS034109
KR1591450-B1	Based on	Patent	WO2010144201
KR1591450-B1	Previous Publ.	Patent	KR2012032013
KR2016018839-A	PCT application	Application	WOUS034109
KR2016018839-A	Div ex	Application	KR701631
KR2016018839-A	Based on	Patent	WO2010144201

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US184825P	07 Jun 2009
US565744	23 Sep 2009
US565745	23 Sep 2009
US565746	23 Sep 2009
AU200071	05 Jan 2012
AU200073	05 Jan 2012
KR700663	09 Jan 2012
KR701628	19 Jan 2012
KR701631	19 Jan 2012
KR703523	09 Feb 2012

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Cited Patent(s):

WO2010144201-A2	US20070236475-A1		
EP2458492-A2	US20020015024-A1		
	US20050190059-A1		
	US20060017692-A1		
	US20060026535-A1		
	US20060026536-A1		
	US20060161870-A1		
	US20060161871-A1		
	US20070171210-A1		
	US20070247442-A1		
	US20080088602-A1		
	US20080098331-A1		
	US20080231610-A1		
	US20080320391-A1		
	US20090106679-A1		
	US20090315851-A1		
	US20100048256-A1		
	US20100177056-A1		
	US20110201381-A1		
	US20120023458-A1		
	US20120077503-A1		
	US20120105371-A1		
	US6323846-B1	WESTERMAN W (WEST-Individual); ELIAS J G (ELIA-Individual)	WESTERMAN W; ELIAS J G
	US6570557-B1	FINGER WORKS INC (FING-Non-standard)	WESTERMAN W C; ELIAS J G
	US6677932-B1	FINGER WORKS INC (FING-Non-standard)	WESTERMAN W C
EP2458493-A2	US20020015024-A1		
	US20050190059-A1		
	US20060017692-A1		
	US20060026535-A1		
	US20060026536-A1		
	US20060161870-A1		
	US20060161871-A1		
	US20070171210-A1		
	US20070247442-A1		
	US20080088602-A1		
	US20080098331-A1		
	US20080231610-A1		
	US20080320391-A1		
	US20090106679-A1		
	US20090315851-A1		
	US20100048256-A1		
	US20100177056-A1		
	US20110201381-A1		
	US20120023458-A1		
	US20120077503-A1		
	US20120105371-A1		
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	US6677932-B1	FINGER WORKS INC (FING-Non-standard)	WESTERMAN W C
EP2458493-A3	US6088023-A	WILLOW DESIGN INC (WILL-Non-standard)	LOUIS W M; LOUIS C M
	US6128007-A	MOTOROLA INC (MOTI)	SEYBOLD J L
	US20040263491-A1		
	US20060119588-A1		
US8493344-B2	DE4340679-A1	DETECON DEUT TELEPOST	SCHARF-KATZ V

	CONSULTING GMBH (DETE-Non-standard)	
EP776097-A2	WIRELESS LINKS INT LTD (WIRE-Non-standard)	SHAYOVITCH J
JP07321889-A		
US4746770-A	SENSOR FRAME INC (SENS-Non-standard)	MCAVINNEY P T
US5053758-A	SPERRY MARINE INC (SPER)	CORNETT J A; CORBETT J D
US5502803-A	SHARP KK (SHAF)	YOSHIDA H; MORIMURA J; MATSUO K; TAKATA K
US5761485-A	EVERYBOOK DELAWARE INC (EVER-Non-standard)	MUNYAN D E
US5832528-A	MICROSOFT CORP (MICT)	HIRSCH S M; PETERS G C; KWATINETZ A; LEBLOND A
US5943043-A	INT BUSINESS MACHINES CORP (IBMC)	FURUHATA T; HIRANO T; SAWADA C
US6046722-A	INT BUSINESS MACHINES CORP (IBMC)	MCKIEL F A
US6088023-A	WILLOW DESIGN INC (WILL-Non-standard)	LOUIS W M; LOUIS C M
US6115482-A	ASCENT TECHNOLOGY INC (ASCE-Non-standard)	SEARS J T; GOLDBERG D A
US6128007-A	MOTOROLA INC (MOTI)	SEYBOLD J L
US20020133350-A1		
US20030046082-A1		
US20040263491-A1		
US20050134578-A1		
US20050216867-A1		
US20060119588-A1		
US20060230340-A1		
US20070011011-A1		
US20070033543-A1		
US20070230748-A1		
US20070236475-A1		
US20070262964-A1		
US20070268317-A1		
US20080027726-A1		
US20080114566-A1		
US20080122796-A1		
US20080140413-A1		
US20080165141-A1		
US20080300874-A1		
US20080316183-A1		
US20090303187-A1		
US20090313020-A1		
US20100001953-A1		
US20100063880-A1		
US20100070281-A1		
US20100231541-A1		
US20100283742-A1		
US20100289757-A1		
US20100309148-A1		
US20100313125-A1		
US20100324903-A1		
US20110050594-A1		
US20110264452-A1		
US20110310026-A1		
US6211856-B1	KONINK PHILIPS ELECTRONICS NV (PHIG); PHILIPS AB (PHIG)	CHOI S M; VAN EE J
US6246983-B1	MATSUSHITA ELECTRIC CORP AMERICA (MATU)	ZOU R; HANSON B; LIAO P

	US6384743-B1	WISCONSIN ALUMNI RES FOUND (WISC)	VANDERHEIDEN G C
	US6396523-B1	INTERLINK ELECTRONICS INC (INTE-Non-standard)	SEGAL J A; YATES W A; BRANTON S B; MOSSONTTE J
	US6442523-B1	SIEGEL S H (SIEG-Individual)	SIEGEL S H
	US6446041-B1	MICROSOFT CORP (MICT)	REYNAR J C; RUCKER E; KYONG HWAN KIM P
	US6489951-B1	MICROSOFT CORP (MICT)	WONG P K; REIFMAN J B; LOWNEY G C; COKUS S J
	US6765557-B1	INTERLINK ELECTRONICS INC (INTE-Non-standard)	SEGAL J A; YATES W A; BRANTON S B; MOSSONTTE J
	US7637421-B1	DIEBOLD SELF-SERVICE SYSTEMS (DIEB)	TROCME J
	US6466203-B2	VAN EE J (VEEJ-Individual)	VAN EE J
	US6926609-B2	MARTIN J R (MART-Individual)	MARTIN J R
	US7062437-B2	INT BUSINESS MACHINES CORP (IBMC)	KOVALES R M; MATHEWSON J M; STERN E H; WILLNER B E
	US7187394-B2	INT BUSINESS MACHINES CORP (IBMC)	CHANDANE S M
	US7376523-B2	NEW TRANSDUCERS LTD (NTRN)	HILL N P R; SULLIVAN D M
	US7408538-B2	MICROSOFT CORP (MICT)	HINCKLEY K P; BATHICHE S N; CAUTHORN J H; SINCLAIR M J
	US7479949-B2	APPLE INC (APPY)	JOBS S P; FORSTALL S; CHRISTIE G; LEMAY S O; HERZ S; VAN OS M; ORDING B; NOVICK G; WESTERMAN W C; CHAUDHRI I; CORRMAN P L; KOCIENDA K; GANATRA N K; ANZURES F A; WYLD J A; BUSH J; MATAS M; MARCOS P D; PISULA C J; KING V S; BLUMENBERG C; TOLMASKY F R; WILLIAMSON R; BOULE A M J; LAMIRAUX H C
	US7603621-B2	MICROSOFT CORP (MICT)	TOYAMA K; SAGAR A; MEDHI I
	US8059101-B2	APPLE INC (APPY)	WESTERMAN W C; LAMIRAUX H; DREISBACH M E
	US8103554-B2	GM GLOBAL TECHNOLOGY OPERATIONS INC (GENK)	TOM A C
	WO1992008183-A1		
JP5451789-B2	JP97190436-A		
	JP2004151614-A		
	JP2007095024-A		
	JP2008508600-A		
	US5832528-A	MICROSOFT CORP (MICT)	HIRSCH S M; PETERS G C; KWATINETZ A; LEBLOND A
KR1442929-B1	US20070236475-A1		
	US20080165141-A1		
KR1509870-B1	US5832528-A	MICROSOFT CORP (MICT)	HIRSCH S M; PETERS G C; KWATINETZ A; LEBLOND A
	US20070236475-A1		

Cited Article(s):

US8493344-B2

International Search Report and Written Opinion dated Jun. 22, 2011, received in International Application No. PCT/US2010/034109, which corresponds to U.S. Appl. No. 12/565,744.

European Search Report and Written Opinion dated Jun. 29, 2012, received in European Patent Application No. 12154613.9, which corresponds to U.S. Appl. No. 12/565,744, 6 pages(Fleizach).

International Search Report and Written Opinion dated Aug. 30, 2012, received in International Aopiication No. PCT/US2012/040703, which corresponds to U.S. Appl. No. 13/172,479: 11 pages (Fleizach).

Office Action dated Aug. 30, 2012, received in U.S. Appl. No. 12/795,633, 13 pages (Fleizach).

American Thermoform Corp., "Touch Screen, Talking Tactile Tablet," downloaded Jul. 30, 2008, http://www.americanthermoform.com/tactiletablet.htm, 2 pages.

Apple.com, "VoiceOver," May 2009, http://www.apple.com/accessibility/vocieover, 5 pages.

Apple Inc., "iPad User Guide," Apple Inc., (c) 2010, 154 pages.

appshopper, "GDial Free_Speed Dial with Gesture." appshopper.com, Mar. 25, 2009, http://appshopper.com/utilities/gdial-free-speed-dial-with-gesture, 2 pages.

CNET, "Sony Ericsson W910," posts, the earliest of which is Oct. 17, 2007, 4 pages, http://news.cnet/crave/?keyword=Sony+Ericsson+W910.

Esther, " GarageBand," AppleVis, Mar. 11, 2011, http://www.applevis.com/app-directory/music/garageband, 4 pages.

Immersion, "Haptics: Improving the Mobile User Experience through Touch," Immersion Corporation White Paper, (c) 2007 Immersion Corporation, 12 pages, http://www.immersion.com/docs/haptics_mobile-ue_nov07v1.pdf.

Jaques, R., "HP unveils Pocket PC for blind users," vnunet.com, Jul. 5, 2004, http://www.vntunet.com/vnunet/news/2125404/hp-unveils-pocket-pc-blind-users, 3 pages.

Kane et al., "Slide Rule: Making Mobile Touch Screens Accessible to Blind People Using Multi-Touch Interaction Techniques," Proceedings of ACM SIGACCESS Conference on Computers and Accessibility. Halifax, Nova Scotia, Canada, Oct. 2008, 8 pages.

Kendrick,D., "The Touch That Means So Much: Training Materials for Computer Users Who Are Deaf-Blind," AFB AccessWorld, Mar. 2005, vol. 6, No. 2, http://www.afb.org/afbpress/pub.asp?DocID=aw060207, 9 pages.

Microsoft, "Pocket PC Device for Blind Users Debuts during National Disability Employment Awareness Month," Microsoft.com PressPass, Oct. 16, 2002, http://www.microsoft.com/presspass/features/2002/oct02/10-16ndeam.mspx, 4 pages.

Okada at al., "CounterVision: A Screen Reader with Multi-Access Interface for GUI," Proceedings of Technology And Persons With Disabilities Conference, Center on Disabilities, CSU Northridge, Mar. 1997, http://www.csun.edu/cod/conf/1997/proceedings/090,htm, 6 pages.

Raman, T,, "Eyes-Free User interaction," Google Research, Feb. 9, 2009, http://emacspeak.sf.net/raman, 25 pages.

tiresias.org, "Touchscreens," tiresiaeorg, Jul. 15, 2008, http://www.tiresias.org/research/guidelines/touch/htm.

Touch Usability, "Mobile," Mar. 12, 2009, http://www.touchusability.com/mobile/, 9 pages

Vanderheiden, G., "Use of audio-haptic interface techniques to allow nonvisual access to touchscreen appliances," Sep., Oct. 1995, http://trace.wisc.edu/docs/touchscreen/chi_conf.htm, 9 pages.

U.S. Appl. No. 10/826,875, filed Apr. 16, 2004, 61 pages (Migos).

U.S. Appl. No. 10/956,720, filed Oct. 1, 2004, 75 pages (Seymour).

U.S. Appl. No. 11/298,977, filed Dec. 9, 2005, 33 pages (Seymour).

U.S. Appl. No. 11/643,257, filed Dec. 20, 2006, 44 pages (Seymour).

U.S. Appl. No. 11/643,389, filed Dec. 20, 2006, 43 pages (Seymour).

U.S. Appl. No. 11/686,295, filed Mar. 14, 2007. 40 pages (Seymour).

Office Action dated May 25, 2012, received in U.S. Appl. No. 12/565,744, 16 pages (Fleizach).

Office Action dated Dec. 21, 2011, received in U.S. Appl. No. 12/795,633, 9 pages (Fleizach).

Frantz et al., "Design case history: Speak & Spell learns to talk," IEEE spectrum Feb. 1982, 5 pages.

Law et al., "Ez Access Strategies for Cross-Disability Access to Kiosks, Telephones and VCRs," DINF (Disability Information Resources), Feb. 16, 1998. http://www.dinf.ne.jp/doc/english/Us_Eu/conf/csun_98/csun98_074.html, 6 pages.

Vanderheiden, G., "Universal Design and Assistive Technology in Communication and Information Technologies: Alternatives or Complements?" Assistive Technology: The Official Journal of RESNA, 1998, vol. 10, No. 1, 9 pages.

Vintage, "TSI Speech + & other speaking calculators," Vintage Calculators Web Museum, retrieved from the internet May 4, 2012, http://www.vintagecalculators.com/html/speech_.html, 6 pages.

Extended Search Report dated Sept. 27, 2012, received in European Patent Application No. 12154609,7, which corresponds to U.S. Appl. No. 12/565,744, 7 pages (Fleizach).

Final Office Action dated Dec. 6, 2012, received in U.S. Appl. No. 12/565,744, 18 pages (Fleizach).

Office Action dated Nov. 20, 2012, received in European Patent Application No. 10719502.6, which corresponds to U.S. Appl. No. 12/565,744, 5 pages (Fleizach).

Registro 40 de 42

Patent Number(s): US2010169098-A1; US8538757-B2

Title: Computer-readable recording medium storing program for enabling user to interact with computer platform e.g. kiosk, has instructions for executing functions on listed object according to recognized global voice command

Inventor Name(s): PATCH K

Patent Assignee(s): PATCH K (PATC-Individual); REDSTART SYSTEMS INC (REDS-Non-standard)

Derwent Primary Accession No.: 2010-H61450

Abstract: NOVELTY - The medium stores instructions for defining a structured grammar of a speech recognition command system (102) to generate a global voice command that enables building of a custom list of objects e.g. screen coordinate. A function that is a mouse click of the listed object is mapped to the global voice command. The global voice command is recognized by the platform upon receiving the voice input from the user. The function on the listed object is executed according to the recognized global voice command.

USE - Computer-readable recording medium storing program for enabling user to interact with computer platform such as embedded system, gaming system, kiosk, robot, transcription system, automotive system, language learning system, home automation system and assistive technology for visually impaired/disabled using voice command of speech recognition command system and for controlling operating system, phone, messaging facility, user interface, media application, global positioning system (GPS)/navigation, web browsing application, camera, document review and editing application, music application and iphone (RTM: smartphone) application (all claimed) of speech recognition command system. Can also be used for controlling personal digital assistant (PDA), laptop, personal computer, medical equipment, transducers, calculators, servers and wired or wireless communication devices.

ADVANTAGE - A comprehensive and combinatorial global speech recognition command system is obtained, by executing the function on the listed object according to the recognized global voice command that is generated by defining a structured grammar.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a speech recognition command system.

Speech recognition command system (102)

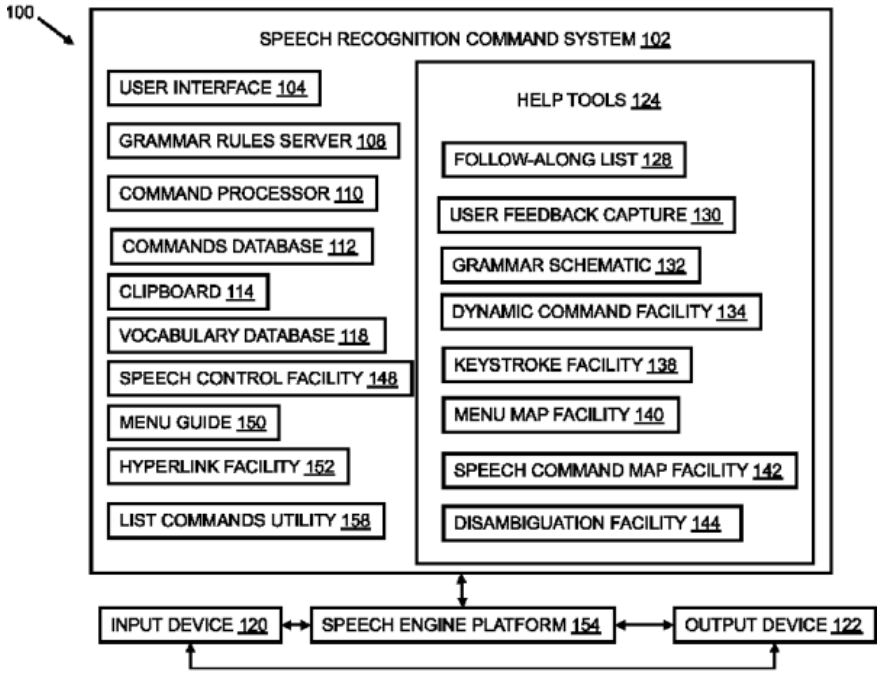
User interface (104)

Command processor (110)

Command database (112)

Clipboard (114)

Drawing:



Derwent Class Code(s): P86 (Musical instruments, acoustics); T01 (Digital Computers); W04 (Audio/Video Recording and Systems); X27 (Domestic Electric Appliances)

Derwent Manual Code(s): T01-C02B; T01-C08A; T01-F05G; T01-F07; T01-J05B4P; T01-J06A1; T01-J12B; T01-J16C3; T01-J30A; T01-J30B; T01-J30F; T01-N02A3C; T01-S03; W04-H05; W04-V04A5; W04-V05; X27-V

IPC: G10L-021/00; G10L-015/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
US2010169098-A1	01 Jul 2010	G10L-021/00	201046	Pages: 43	English
US8538757-B2	17 Sep 2013	G10L-015/00	201361		English

Application Details and Date:

US2010169098-A1	US643611	21 Dec 2009
US8538757-B2	US643611	21 Dec 2009

Further Application Details:

US2010169098-A1	Provisional	Application	US139495P
US2010169098-A1	Provisional	Application	US938599P
US2010169098-A1	CIP of	Application	US123056
US8538757-B2	Provisional	Application	US139495P
US8538757-B2	Provisional	Application	US938599P
US8538757-B2	CIP of	Application	US123056
US8538757-B2	CIP of	Patent	US8150699

Priority Application Information and Date:

US123056	19 May 2008
US643611	21 Dec 2009

Cited Patent(s):

US8538757-B2 KR2006092683-A

US5632002-A	TOSHIBA KK (TOKE); TOSHIBA SOFT ENG CO LTD (TOSH-Non-standard)	HASHIMOTO H; NAGATA Y; SETO S; TAKEBAYASHI Y; SHINCHI H; YAMAGUCHI K
US5664061-A	INT BUSINESS MACHINES CORP (IBMC)	ANDRESHAK J C; DAGGETT G H; KARAT J; LUCASSEN J; LEVY S E; MACK R L
US5699486-A	CANON INFORMATION SYSTEMS INC (CANO)	TULLIS T S; KODIMER M L
US5872558-A		
US5960394-A	DRAGON SYSTEMS INC (DRAG-Non-standard)	MCGRATH F J; SQUIRES S D; PARKE J W; STEELE E E; GOULD J M
US5983179-A	DRAGON SYSTEMS INC (DRAG-Non-standard)	GOULD J M
US20060085748-A1		
US20080300886-A1		
US20090216531-A1		
US6233559-B1	MOTOROLA INC (MOTI)	BALAKRISHNAN S
US6570588-B1	HITACHI LTD (HITA)	ANDOU H; HATAOKA N
US6820056-B1	INT BUSINESS MACHINES CORP (IBMC)	HARIF S
US6871179-B1	INT BUSINESS MACHINES CORP (IBMC)	KIST T A; LEWIS B L; LUCAS B D
US6920425-B1	NORTEL NETWORKS LTD (NELE)	WILL C A; SHELLEY W N
US6963840-B2	INT BUSINESS MACHINES CORP (IBMC)	SUMNER C
	THRIFT P R (THRI-Individual); HEMPHILL C T (HEMP-	

US7020609-B2	Individual)	THRIFT P R; HEMPHILL C T
US7899673-B2	MICROSOFT CORP (MICT)	BROWN C R
WO2008144638-A3	REDSTART SYSTEMS INC (REDS-Non-standard)	PATCH K

Cited Article(s):

US8538757-B2 ISA, "International Search Report and Written Opinion", for US Patent Application No. PCT/US2008/064098 mailed on Jan. 23, 2009.

Registro 41 de 42

Patent Number(s): WO2009118736-A2; WO2009118736-A3; EP2274736-A2; US2011025602-A1; IN201002003-P3; CN102047306-A; US9064426-B2

Title: Method for tactile presentation of perceivable content e.g. spatio temporal pattern of tactile sensation in cellular phone, involves changing level of acidity in solution so as to change proton concentration of different regions

Inventor Name(s): BROD E; SIVAN U

Patent Assignee(s): TECHNION RES&DEV FOUND LTD (TECR-C); TECHNION RES&DEV FOUND LTD (TECR-C); TECHNION RES&DEV FOUND LTD (TECR-C); TECHNION RES & DEV FOUND LTD (TECR-C)

Derwent Primary Accession No.: 2009-P20823

Abstract: NOVELTY - A data representing perceivable content is received. The electric currents to be applied to the regions of a solution having macromolecules are selected (93). The level of acidity of the regions is changed (94) by applying the respective electric currents, so that the change (95) in proton concentration of regions tactilely presents the content.

USE - Method for tactile presentation of perceivable content e.g. spatio temporal pattern of tactile sensation such as touch, roughness, texture, vibration pressure, itching and friction, in electronic device cellular phone. Can also be used in tactile presentation of graphical image, text and numerical data during interactive application and game session in camera, scientific device, smartphone, mobile communication device, personal computer (PC), gaming console and personal digital assistant (PDA).

ADVANTAGE - By changing the proton concentration of different regions in the solution, the content is presented tactilely and the electronic device is used even by visually-impaired person.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) apparatus for tactile presentation of perceivable content;

(2) data input device; and

(3) optical element for changing display.

DESCRIPTION OF DRAWING(S) - The drawing shows the flowchart illustrating the process for tactile presentation of data.

Step of providing addressable electrodes in or in proximity of solution (91)

Step of providing perceivable content (92)

Step of selecting electric currents to be applied to solution (93)

Step of changing acidity levels in solution (94)

Step of changing tactile and/or tactile characteristics (95)

Drawing:

Derwent Class Code(s): P85 (Education, cryptography, adverts); W01 (Telephone and Data Transmission Systems)

Derwent Manual Code(s): W01-C01D3C; W01-C01P2

IPC: G09B-021/00; G08B-006/00; G09G-005/00; H04B-003/36

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2009118736-A2	01 Oct 2009	G09B-021/00	200966	Pages: 31	English
WO2009118736-A3	28 Jan 2010	G09B-021/00	201009		English
EP2274736-A2	19 Jan 2011	G09B-021/00	201106		English
US2011025602-A1	03 Feb 2011	G09G-005/00	201110		English
IN201002003-P3	29 Apr 2011	G09B-021/00	201131		English
CN102047306-A	04 May 2011	G09B-021/00	201205		Chinese
US9064426-B2	23 Jun 2015	H04B-003/36	201542		English

Application Details and Date:

WO2009118736-A2	WOIL000336	25 Mar 2009
WO2009118736-A3	WOIL000336	25 Mar 2009
EP2274736-A2	EP723852	25 Mar 2009
US2011025602-A1	US934658	27 Sep 2010
IN201002003-P3	INMN02003	23 Sep 2010
CN102047306-A	CN80119103	25 Mar 2009
US9064426-B2	US934658	27 Sep 2010

Further Application Details:

EP2274736-A2	PCT application	Application	WOIL000336
EP2274736-A2	Based on	Patent	WO2009118736
US2011025602-A1	PCT application	Application	WOIL000336
US2011025602-A1	Provisional	Application	US039277P
IN201002003-P3	PCT application	Application	WOIL000336
CN102047306-A	PCT application	Application	WOIL000336
CN102047306-A	Based on	Patent	WO2009118736
US9064426-B2	PCT application	Application	WOIL000336
US9064426-B2	Provisional	Application	US039277P
US9064426-B2	Based on	Patent	WO2009118736

Priority Application Information and Date:

US039277P	25 Mar 2008
US934658	27 Sep 2010

Designated States:
WO2009118736-A2:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC;

VN; ZA; ZM; ZW
(Regional): AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; OA; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; EA
WO2009118736-A3:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
(Regional): AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; OA; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; EA
EP2274736-A2:
(Regional): AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; TR

Cited Patent(s):

WO2009118736-A2	DE10226746-A1		
	DE19912307-A1	BAUMGAERTNER M (BAUM-Individual); BAUMGAERTNER B (BAUM-Individual)	BAUMGAERTNER M; BAUMGAERTNER B
	DE102004061731-A1		
	US5580251-A	TEXAS INSTR INC (TEXI)	COWENS M W; GILKES A M; TAYLOR L A
	US20020171081-A1		
	US20030179432-A1		
	WO2006128825-A2		
US9064426-B2	CN1688923-A	VINCENT J B (VINC-Individual); FLICK D W (FLIC-Individual)	VINCENT J B; FLICK D W
	DE10226746-A1		
	DE19912307-A1	BAUMGAERTNER M (BAUM-Individual); BAUMGAERTNER B (BAUM-Individual)	BAUMGAERTNER M; BAUMGAERTNER B
	DE102004061731-A1		
	US5580251-A	TEXAS INSTR INC (TEXI)	COWENS M W; GILKES A M; TAYLOR L A
	US20020171081-A1		
	US20030179432-A1		
	US20070247700-A1		
	WO2006012882-A1	MAHLTIG H (MAHL-Individual)	MAHLTIG H
	WO2009118736-A3	TECHNION RES&DEV FOUND LTD (TECR)	BROD E; SIVAN U

Cited Article(s):

WO2009118736-A2	TAYLOR P M ET AL: "Advances in an electrorheological fluid based tactile array" 15 May 1998 (1998-05-15), DISPLAYS DEVICES, DEMPA PUBLICATIONS, TOKYO, JP, PAGE(S) 135 - 141 , XP004128263 ISSN: 0141-9382 Sections 1,2
	SJ KIM ET AL: "Bending behavior of hydrogels composed of poly(methacrylic acid) and alginate by electrical stimulus" 1 October 2004 (2004-10-01), POLYMER INTERNATIONAL, SOCIETY OF CHEMICAL INDUSTRY, GB, PAGE(S) 1456 - 1460 , XP009122395 ISSN: 0959-8103 [retrieved on 2004-07-21] cited in the application the whole document
US9064426-B2	Kim et al ("Bending behavior of hydrogels composed of poly (methacrylic acid) and alginate by electrical stimulus") {Polymer International, Society of Chemical Industry, GB, pp. 1456-1460,XP009122395,ISSN: 0959-8103, Oct. 1, 2004 (IDS submitted on Oct. 31, 2010)}.
	Response Dated Oct. 5, 2011 to Communication Pursuant to Article 94(3) EPC of Mar. 28, 2011 From the European Patent Office Re. Application No. 09723852.1.
	Translation of Office Action Dated Nov. 5, 2012 From the State Intellectual Property Office of the People's Republic of China Re. Application No. 200980119103.7.
	Translation of Search Report Dated Nov. 5, 2012 From the State Intellectual Property Office of the People's Republic of China Re. Application No. 200980119103.7.
	Communication Pursuant to Article 94(3) EPC Dated Mar. 28, 2011 From the European Patent Office Re. Application No. 09723852.1.
	Summons to Attend Oral Proceedings Pursuant to Rule 115(1) EPC Dated Jul. 25, 2012 From the European Patent Office Re. Application No. 09723852.1.
	Communication Relating to the Results of the Partial International Search Dated Oct. 8, 2009 From the International Searching Authority Re.: Application No. PCT/IL2009/000336.
	International Preliminary Report on Patentability Dated Oct. 7, 2010 From the International Bureau of WIPO Re. Application No. PCT/IL2009/000336.
	International Search Report and the Written Opinion Dated Dec. 11, 2009 From the International Searching Authority Re.: Application No. PCT/IL2009/000336.
	Kim et al. "Bending Behavior of Hydrogels Composed of Poly(Metacrylic Acid) and Alginate by Electrical Stimulus", Polymer International, Society of Chemical Industry, XP009122395, 53: 1456-1460, Oct. 1, 2004.
	Taylor et al. "Advances in an Electrorheological Fluid Based Tactile Array", Displays Devices, XP004128263, 18: 135-141, May 15, 1998. Sections 1, 2.

Registro 42 de 42

Patent Number(s): WO2005027477-A1; US2005154587-A1

Title: Method of operating a cellular phone involves retrieving phone number stored in association with identified phone number type for identified name and initiating call to retrieved number

Inventor Name(s): FUNARI M; COHEN J

Patent Assignee(s): VOICE SIGNAL TECHNOLOGIES INC (VOIC-Non-standard)

Derwent Primary Accession No.: 2005-314883

Abstract: NOVELTY - A voice signal generated from voice input specifying a name is compared with prestored voice tags to identify a selected name in phone book. Another voice signal is generated from the speech input specifying phone number type, for identifying selected phone number type. The phone number stored in association

with identified phone number type for identified name is retrieved and a call is initiated to the retrieved number.

USE - For operating cellular phone e.g. smartphone 2000 with voice enabled phone book interface for speaker independent name recognition and phone number categorization.

ADVANTAGE - Enables storing phone book entries that are accessed by voice tags, efficiently. Enables a visually impaired person to program the phone book, easily.

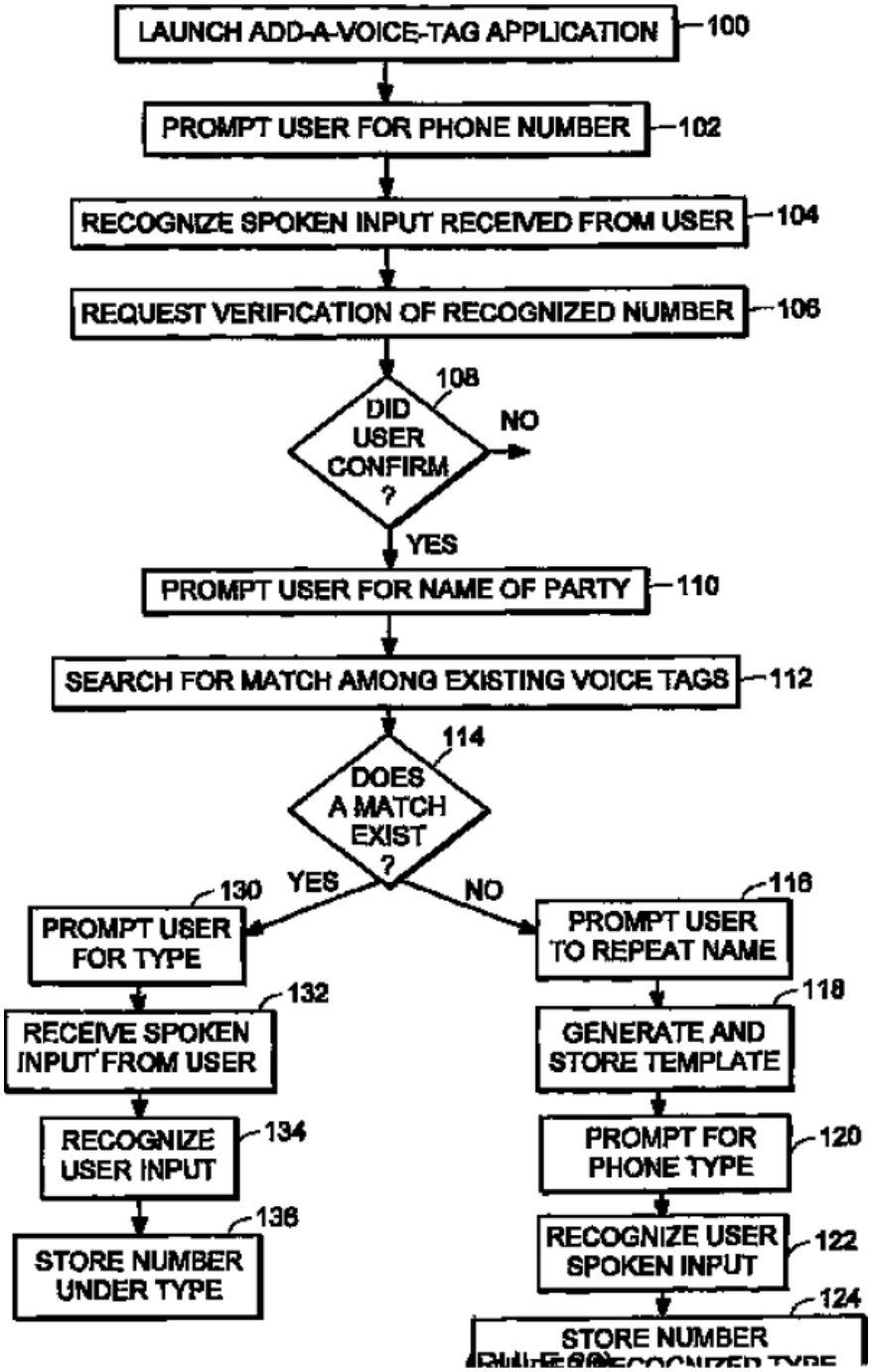
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) method of implementing a phone book on a mobile communication device; and

(2) mobile communication device.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the add-a-voice-tag application.

Drawing:



Derwent Class Code(s): T01 (Digital Computers); W01 (Telephone and Data Transmission Systems); W04 (Audio/Video Recording and Systems); P86 (Musical instruments, acoustics)

Derwent Manual Code(s): T01-J08A; T01-J18; W01-C01B1B; W01-C01D3C; W04-V04A

IPC: H04M-001/27; G10L-015/00

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2005027477-A1	24 Mar 2005	H04M-001/27	200532	Pages: 22	English

US2005154587-A1	14 Jul 2005	G10L-015/00	200547		

Application Details and Date:

WO2005027477-A1	WOUS029141	08 Sep 2004
US2005154587-A1	US935690	07 Sep 2004

Further Application Details:

US2005154587-A1	Provisional	Application	US501973P

Priority Application Information and Date:

US501973P	11 Sep 2003
US935690	07 Sep 2004

Designated States:

WO2005027477-A1:

(National): AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW

(Regional): AT; BE; BG; BW; CH; CY; CZ; DE; DK; EA; EE; ES; FI; FR; GB; GH; GM; GR; HU; IE; IT; KE; LS; LU; MC; MW; MZ; NA; NL; OA; PL; PT; RO; SD; SE; SI; SK; SL; SZ; TR; TZ; UG; ZM; ZW

Field of Search: x

Cited Patent(s):

WO2005027477-A1	EP477688-A	TEXAS INSTR INC (TEXI)	BORCHERDIN M A
	US6163596-A	HOTAS HOLDINGS LTD (HOTA-Non-standard)	GELFER Y; OTIKER Y; ETING L