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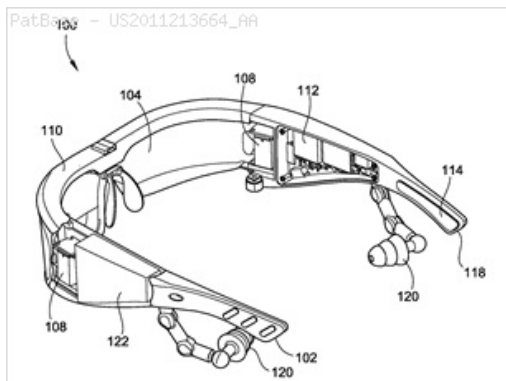
Title: LOCAL ADVERTISING CONTENT ON AN INTERACTIVE HEAD-MOUNTED EYEPiece

Abstract: This disclosure concerns an interactive head-mounted eyepiece including an optical assembly through which the user views a surrounding environment and displayed content. The displayed content includes a local advertisement, wherein the location of the eyepiece is determined by an integrated location **sensor** and wherein the local advertisement has a relevance to the location of the eyepiece. The head mounted eyepiece may also include an audio device and the displayed content may comprise local advertisements and audio.

Classifications:

International (IPC 8-9): G01C21/00 G02B27/00 G02B27/01 G02B27/02 G02B27/14 G02B5/18 G02B5/23 G02B5/30 G02B6/00 G02B7/00 G02C11/00 G02C11/04 G02C7/00 G02F1/1335 G02F1/13357 G03B21/26 G03H1/00 G06F1/16 G06F13/00 G06F17/00 G06F17/30 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0346 G06F3/041 G06F3/048 G06F3/0488 G06K9/00 G06Q30/00 G06Q30/02 G06Q30/04 G06T15/00 G06T19/00 G09G5/00 G09G5/02 G09G5/10 G09G5/377 G10L19/00 H04N5/225 H04N5/232 H04N5/44 H04N5/64 H04N7/15 H04N7/18 (Advanced/Invention); A61B3/113 F21V8/00 G02B27/00 G02B27/01 G02B5/18 G02B5/30 G02B6/12 G03H1/22 G06F3/00 G06F3/01 G06T19/00 H04N13/04 H04N7/14 (Advanced/Non-invention)

CPC: G02B27/1066 G02B27/281 H04N7/15 G01C21/3629 G02B27/0149 G02B2027/0132 G02B2027/0123 G02B2027/0127 G02B2027/0134 G02B5/3058 G02C5/143 G02B6/0011 G02C7/08 G02C9/00 G06F3/012 G06F3/014 G06F21/32 G02B6/12019 A61B3/113 G02B2027/0112 G02B2207/113 G02B2207/115 H04N7/142 G06F1/1673 G06Q30/0261 G02B5/23 G02B7/008 G03H1/2294 G02C7/086 G02B2027/0147 G06F3/0481 G06F3/14 G02B5/30 G02B27/0176 G02B6/0038 G02B6/0045 G02B6/0053 G02B6/0056 G02B6/12009 G06F3/0227 G06F3/04815 G06F13/00 G06Q50/26 G06F3/167 G02B2027/011 G02B6/00 G02B27/0172 G05D1/0016 G06F3/165 G06F3/03547 G06F3/04842 G02B5/1842 G06F3/016 G06K9/00604 G06K9/00617 H04N5/44 H04N5/23293 H04N5/2254 G02C11/10 G06K9/00255 G06K9/00671 G06F3/0304 G06F3/0428 G06F2203/0331 G06F2203/0338 G02B2027/0138 G02B2027/0187 G02B27/017 G02B27/0093 G02B2027/014 G02B2027/0178 G06F1/163 G06F3/005 G06F3/011 G06F3/013 G06Q30/02 H04R3/005 G02B5/04 G02B5/18 G02B5/28 G02B2027/0118 G06F3/0346 G06T19/006 G06F3/017 G06F3/0488 G06F3/0233 G06F3/0236 H04R1/028 H04R1/1041 G06F19/00 H04N13/366 **European:** G01C21/36G1 G02B27/00T G02B27/01B G02B27/01C G02B27/01C1 G02B27/01C2 G02B27/10K G02B27/28A G02B5/23 G02B7/00T G02C11/04 G02C7/08 G02C7/08N G02C9/00 G05D1/00C1 G06F1/16P5 G06F1/16P9K12 G06F3/00B6 G06F3/01B G06F3/01B4 G06F3/01G G06Q30/02 G06Q30/0261 S02B27/00T S02B27/01A10 S02B27/01A11 S02B27/01A15 S02B27/01A2 S02B27/01A3 S02B27/01A4 S02B27/01A5 S02B27/01A6 S02B27/01A9 S02B27/01A9A S02B27/01C3 S02B27/01D4 S02B5/18 S02B5/30 S02B5/30P2 S02B6/00 S02B6/00L6 S02B6/12M2 **US:** 1/1 345/156 345/156P 345/156S 345/158 345/158P 345/419 345/419P 345/589 345/589P 345/617 345/617S 345/633 345/633P 345/633S 345/690 345/690P 345/7 345/8 345/8P 345/8S 348/14.08 348/143 348/143P 348/158 348/78 348/E7.085 348/E70.85S 353/28 359/13 359/554 359/554S 359/567 359/630 382/115 382/115S 382/117 382/117S 382/118 382/118P 463/30 463/36 463/42 701/491 704/201 704/201S 704/E19.001 704/E19.001S 705/14.58 705/14.580P 705/14.580S 715/702 715/702P 715/773 715/773P



Family:

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Probable Assignee: MICROSOFT CORP

Assignee(s): (std): BIETRY JOSEPH ; BORDER JOHN N ; CELLA CHARLES ; HADDICK JOHN D ; KING III ROBERT W ; OSTERHOUT GROUP INC ; LOHSE ROBERT MICHAEL ; KING ROBERT W ; MILLER GREGORY D ; NORTRUP ROBERT J ; NORTRUP EDWARD H ; MICROSOFT CORP ; MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT TECH LICENSING LLC ; WILDER KELLIE A ; POLINKO NICHOLAS R ; OSTERHOUT RALPH F ; STOVALL ROSS W

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

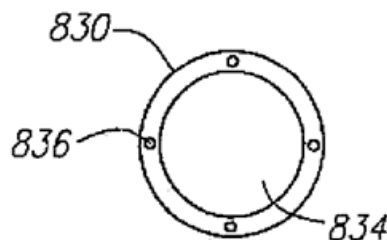
Title: **SYSTEMS** AND METHODS FOR GAZE-BASED MEDIA SELECTION AND EDITING

Abstract: **Systems** are presented herein, which may be implemented in a wearable device. The **system** is designed to allow a user to edit media images captured with the wearable device. The **system** employs eye tracking data to **control** various editing functions, whether prior to the time of capture, during the time of capture, or after the time of capture. Also presented are methods for determining which sections or regions of media images may be of greater interest to a user or viewer. The method employs eye tracking data to assign saliency to captured media. In both the **system** and the method, eye tracking data may be combined with data from additional **sensors** in order to enhance operation.

Classifications:

International (IPC 8-9): A61B3/113 G02B27/00 G02B27/01 G06F1/16 G06F21/00 G06F21/32 G06F21/64 G06F3/01 G06F3/023 G06F3/03 G06F3/042 G06F3/0481 G06F3/0482 G06F3/0484 G06F3/0485 G06F3/0488 G06K9/00 G06T1/00 G06T19/00 G06T7/00 G09G5/00 H04L29/06 H04L9/10 H04L9/32 H04N5/232 H04N5/247 H04N5/445 H04W12/06 (Advanced/Invention); G02B27/01 (Advanced/Non-invention)
CPC: G06F3/04817 G06F3/0482 G06F3/012 G06F3/04886 G06K9/00597 G06K9/00617 G06F1/1686 G06F1/1694 G06F3/04842 G06F3/04845 G06F3/0485 G06F2203/04806 G06K9/0061 H04N5/44504 H04N5/23229 H04N5/247 G06T19/006 G06F21/316 G06F21/64 G06F3/013 G06F3/017 G02B27/0172 G02B2027/0178 G02B27/0093 G02B27/017 G02B2027/0138 G02B2027/014 G02B2027/0141 G02B2027/0187 G06F3/0236 G06F3/0304 G06F21/32 G06F2203/011 G06K9/00604 H04L63/0861 H04W12/06 A61B3/113 G06F1/163 G06F3/011 G06F3/0425 G06F3/0426
US: 345/156 345/633 382/117 726/19 726/4

PatBase - US2015220157_AH



Family:

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Priority:

US20130922724P 20131231	US20140991435P 20140509	US20140023940P 20140713
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Probable Assignee: GOOGLE INC

Assignee(s): (std): CONNAUGHTON SPENCER JAMES ; EYEFLUENCE INC ; EYEFLUENE INC ; GOOGLE INC ; GOOGLE LLC ; GOOGLE LLC N D GES D STAATES DELAWARE

Assignee(s): GOOGLE LLC NDGESD STAATES DELAWARE

Inventor(s): (std): CONNAUGHTON SPENCER JAMES ; DRAKE ELIOT ; DRAKE ELIOT FRANCIS ; LORD NATHAN ; MALEEV IVAN ; MARGGRAFF LEWIS JAMES ; MILFORD PETER ; MILFORD PETER N ; PUBLICOVER NELSON GEORGE ; PUBLICOVER NELSON ; MARGGRAFF LEWIS

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BOULT WADE TENNANT; KITA AOYAMA INT PATENT BUREAU; FUKAMI PATENT OFFICE PC; ENGLISH WILLIAM A

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

Title: METHOD FOR DISPLAYING CONTENT AND ELECTRONIC DEVICE THEREFOR

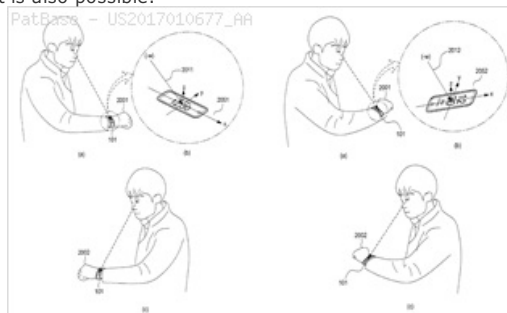
Abstract: A method for operating an electronic device of the present invention may comprise determining movement information of the electronic device based on sensing data measured through a **sensor** module; determining bio information for a user by analyzing one or more bio signals; and **controlling** the electronic device according to the movement information and the bio information. In addition, another embodiment is also possible.

Classifications:

International (IPC 8-9): G06F1/16 G06F21/32 G06F21/34 G06F3/01 G06F3/0346 G06F3/048 G06F3/0488 H04W12/06 H04W4/02 H04W88/02 (Advanced/Invention)

CPC: G06F3/048 G06F3/0488 H04W4/00 G06F3/017 G06F3/0346 G06F1/163 G06F21/32 G06F21/34 H04L63/0861 H04W12/06 H04W88/02 G06F3/0482 G06F3/0485 G06F3/04883 G06F2221/2153 G06F3/1454 G06F19/00 G06F3/015 G06F2203/011 G06Q50/10 A61B5/0022 A61B5/02055 A61B5/021 A61B5/02416 A61B5/0402 A61B5/681 G06F3/01

US: 345/156 726/7



Family:

Publication number	Publication date	Application number	Application date
KR20150099430 A	20150831	KR20150021112	20150211
KR20160081084 A	20160708	KR20140194289	20141230
KR20160119239 A	20161012	KR20167025950	20150217
US2017010677 AA	20170112	US20150120587	20150217
US2017011210 AA	20170112	US20150120687	20150211
WO15126095 A1	20150827	WO2015KR01391	20150211
WO15126182 A1	20150827	WO2015KR01666	20150217

Priority:

US20140943004P 20140221	KR20140194289 20141230	KR20150021112 20150211
WO2015KR01391 20150211	US20150120687 20150211	US20150120587 20150217
WO2015KR01666 20150217		

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): BAEK MOO HYUN ; CHEONG CHEOL HO ; CHOI JONG HO ; HONG DUK KI ; JEON SEUNG YOUNG ; JIN IN JI ; JUNG EUI CHANG ; KANG HYUK ; KIM DONG HYUN ; KIM HYUN SOO ; KIM YANG SU ; LIM KYUNG SOO ; NA BO YEON ; PARK JEONG MIN ; PARK JI HYUN ; PARK TAE GUN ; ROH BYOUNG TACK ; SEOK SANG YOUP ; SHIN HYUN SEOK ; SHIN SUNG HYUK ; SON DONG IL ; SON KWANG SUB ; SON SUNG HO ; YANG JIN GIL ; YEO JAE YUNG ; YOO JAE BONG ; YOON BYOUNG UK ; YOON SU HA

Agent(s): LEE KEON JOO ET AL

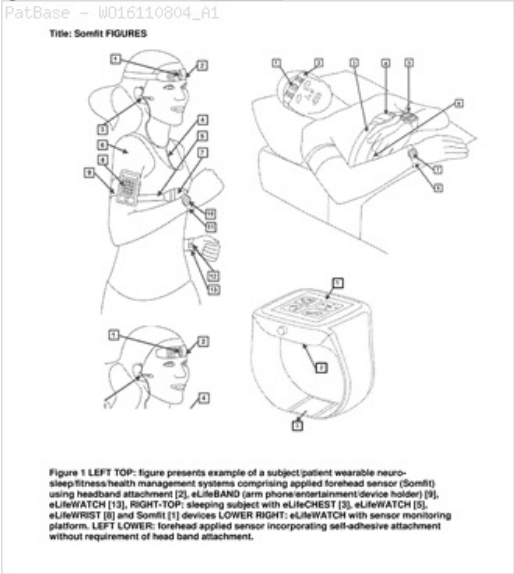
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX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

Title: MOBILE WEARABLE MONITORING **SYSTEMS**

Abstract: This document describes a number of inventions comprising of one or more wearable devices (i.e. attached or applied to limbs, body, head or other body extremities but also applicable to implanted or physiologically attachable **systems**). These **systems** have a means of enabling diagnostic or prognostic monitoring applicable to monitoring relevant parameters and corresponding analysis determination and characterisation applicable to the onset or detection of events or health conditions of interest. One application relates to sleep monitoring and associate EEG **sensors**.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/0205 A61B5/024
A61B5/04 A61B5/0408 A61B5/0476 A61B5/0478 A61B5/0488
A61B5/0496 A61B5/08 A61B5/11 A61B5/1455
A61B5/16 (Advanced/Invention)
CPC: A61B5/4806 A61B5/0002 A61B5/0205 A61B5/024 A61B5/0476
A61B5/0478 A61B5/0488 A61B5/0496 A61B5/11 A61B5/1123
A61B5/14551 A61B5/6814 A61B5/6824



Family:

Publication number	Publication date	Application number	Application date
AU2016205850 AA	20160714	AU20160205850	20160106
CA2968645 AA	20170523	CA20162968645	20160106
CN107438398 A	20171205	CN201680015981	20160106
EP3242587 A1	20171115	EP20160701198	20160106
IN201717023353 A	20170922	IN201717023353	20170703
JP2018505759 T2	20180301	JP20170553469T	20160106
KR20170129689 A	20171127	KR20177021883	20160106
WO16110804 A1	20160714	WO20161B50042	20160106

Priority:

AU20150900015 20150106 WO20161B50042 20160106

Probable Assignee: BURTON DAVID

Assignee(s): (std): BURTON DAVID

Inventor(s): (std): BURTON DAVID

Agent(s): COMPUMEDICS LTD; MLT AIKINS LLP; HANDSOME IP LTD

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

Title: PAYMENT **PROCESSING** METHOD AND ELECTRONIC DEVICE SUPPORTING THE SAME

Abstract: An electronic device and method of **processing** a payment at the electronic device are provided. The electronic device includes a security memory configured to store payment information of a near field communication (NFC) method, payment information of a magnetic security transmit (MST) method, and fingerprint information, and a processor configured to **control** a multiple payment operation of the NFC method and the MST method when fingerprint information obtained through fingerprint detection is valid. The processor is further configured to **control** a signal **processing** information according to the NFC method operation and a signal **processing** information according to the MST method operation to be outputted as one screen **interface**.

Classifications:

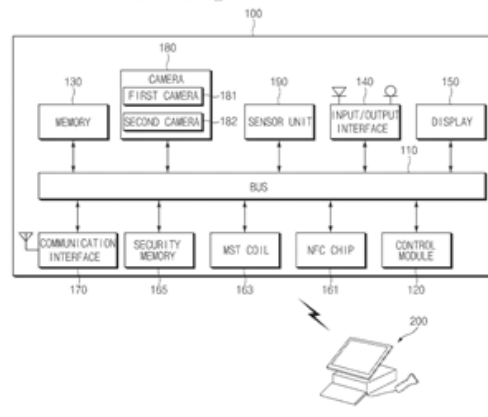
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G06K7/00 G06K7/08 G06K9/00 G06Q20/00 G06Q20/02 G06Q20/04
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H04W12/08 H04W4/00 H04W4/12 H04W4/14 H04W4/60 H04W8/24
H04W8/26 H04W88/06 (Advanced/Invention)

CPC: G06Q20/40145 G06Q20/40 G06Q20/401 H04W4/14
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US: 705/39 705/44 705/71 705/72 705/75 713/156

PatBase - US2016247144_AA



Family:

Publication number	Publication date	Application number	Application date
AU2016216833 AA	20160818	AU20160216833	20160204
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WO17078365 A1	20170511	WO2016KR12442	20161101

Priority:

KR20150021808	20150212	US20150126121P	20150227	KR20150092412	20150629
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Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): BYOUNG TACK ROH ; BYUNG IN YU ; CHO BEOM SOO ; CHOI JIN WAN ; HAN NA KIM ; HWA YOUN SUH ; JE SEONG MIN ; JEONG MIN CHUL ; JUN MYUNG HWA ; KASMAN BULENT ; KIM GEON SOO ; KIM HAN NA ; KIM HEE JUNG ; KIM HEEJUNG ; KIM HYUN ; KIM IN HO ; KIM INHO ; KIM JONG HO ; KIM KI BONG ; KIM KIBONG ; KIM MS HAN NA ; KIM SANG HEE ; KIM SUNG WANG ; KIM SUNGWANG ; KWON WON KYU ; LEE CHANG HO ; LEE CHER OO ; LEE CHEROO ; LEE JI HYE ; LEE KYEONG HUN ; LEE KYEONGHUN ; LEE SEON SOOK ; LEE YO HAN ; LIU AN ; LIU CHUNG HUAN ; MI YEON PARK ; NAINAMVALAPPIL ANEESH ; OH MS SAE AH ; OH SAE AH ; OH SAEAH ; PAEK JOO YOUN ; PAEK JOOYOUN ; PARK CHAN PYO ; PARK CHANPYO ; PARK MI YEON ; PARK MINSEOK ; PARK MS MI YEON ; PARK SOO BIN ; PARK SUYOUNG ; PARK YONG MAN ; PATEL KUNAL ; PENG PAI ; PRASAD SHYAM ; ROH BYOUNG TACK ; ROH BYOUNGTACK ; SAE AH OH ; SEO MS YOU BI ; SEO YOU BI ; SEO YOUNBI ; SEOK HYUN YOON ; SEONG MIN JE ; SHIN BOO SUN ; SHIN BOOSUN ; SOHN SE CHANG ; SUH HWA YOUN ; SUH MS HWA YOUN ; SYED EBRAHIM ABDUL ; VENKATARAM BALAKRISHNA ; VENKATARAMAN BALAKRISHNA ; YO HAN LEE ; YONG MAN PARK ; YOON SEOK HYUN ; YOON SEOKHYUN ; YOU BI SEO ; YU BYUNG IN ; YU BYUNGIN ; YUAN DING ; PARK SU YOUNG

Inventor(s): KYEONGHUN LEE ; GEON SOO KIM ; CHEROO LEE ; CHANG HO LEE ; WON KYU KWON ; SE CHANG SOHN

Agent(s): GRIFFITH HACK; GROOTSCHOLTEN JOHANNES AM; JENKINS RICHARD GAVIN; HGF LTD; LAND ADDICK ADRIANUS GOSLING; HYLARIDES PAUL JACQUES; NEDERLANDSCH OCTROOIBUREAU; APPELYARD LEES IP LLP; BUDI RAHMAT SH; BAE KIM AND LEE IP GROUP; KWON HYUK ROK ET AL

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

Title: **SYSTEM** AND METHODS FOR ON-BODY GESTURAL **INTERFACES** AND PROJECTION DISPLAYS

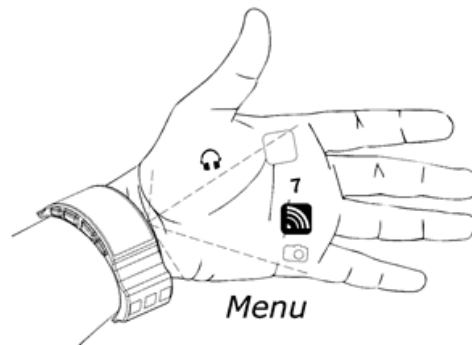
Abstract: A wearable **system** with a gestural **interface** for wearing on, for instance, the wrist of a user. The **system** comprises an ultrasonic transceiver array structure and may comprise a pico projector display element for displaying an image on a surface. User anatomical feature inputs are received in the form of ultrasound signals representative of a spatio-temporal cross-section of the wrist of the user by articulating wrist, finger and hand postures, which articulations are translated into **gestures**. Inputs from inertial and other **sensors** are used by the **system** as part of the anatomical feature posture **identification** method and device. **Gestures** are recognized using a mathematically-modeled, simulation-based set of biological metrics of tissue objects, which **gestures** are converted to executable computer instructions. Embodiments of the **system** disclosed herein may also be used to monitor biometric and health data over computer networks or using onboard **systems**.

Classifications:

International (IPC 8-9): A63F13/00 G06F1/16 G06F17/10 G06F3/00 G06F3/01 G06F3/033 G06F3/0338 G06F3/0346 G06F3/0481 G06F3/0482 G06F3/0484 G06F3/14 G06K9/00 H04B11/00 H04W88/02 (Advanced/Invention)

CPC: G06F3/011 G06F1/163 G06F3/0346 G06F3/0482 G06F3/04817 G06F3/04845 G06F3/013 G06F3/015 G06F3/017 G06F3/005 G06F3/04812

PatBase - US2017123487_AA



Family:

Publication number	Publication date	Application number	Application date
CN108431736 A	20180821	CN201680077473	20161031
IN201847019468 A	20180601	IN201847019468	20180524
KR20180088390 A	20180803	KR20187014478	20161031
TW201727439 A	20170801	TW20160135225	20161031
US2017123487 AA	20170504	US20160338189	20161028
WO17075611 A1	20170504	WO2016US59777	20161031

Priority:

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

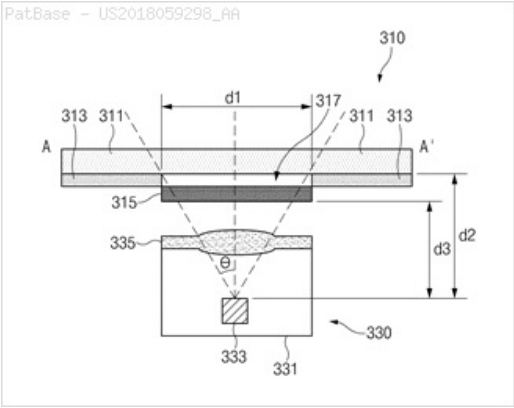
Title: OPTICAL MODULE AND ELECTRONIC DEVICE HAVING THE SAME

Abstract: An electronic device includes a housing that includes a first surface, a second surface, and a side surface, a display exposed through a first region of the first surface, an optical module disposed below a second region of the first surface that is adjacent to the first region of the first surface, and a processor. The first surface includes a glass **layer**, a film **layer** disposed under a rear surface of the glass **layer** and including an opening that overlaps at least part of the optical module and has a dimension corresponding to at least part of the optical module, and a visible-light-absorbing member comprising a visible-light-absorbing material disposed under the rear surface of the glass **layer** and overlapping at least part of the opening. The visible-light-absorbing member is configured to light in a first wavelength range and to allow light in a second wavelength range to pass through the visible-light-absorbing member.

Classifications:

International (IPC 8-9): G02B1/10 G02B3/00 G02B5/20 G02B5/22 H04N5/33 (Advanced/Invention)

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Family:

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KR20180022244 A	20180306	KR20160107395	20160824
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