

1) Family number: 23269229 (US2002051061 AA)

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Title: IMAGE MONITORING

Abstract: According to the invention, live images, in particular, from a CCD camera are compressed in two different ways in a monitoring instrument. On the one hand, compression is carried out at a low resolution, for example by means of H.261, H.263 or MPEG. On the other hand, compression is carried out at a high resolution, for example by means of JPEG, synchronously with the compression at the low resolution. A time code is generated for each image. The time code is, for example, a chronological code which contains the date and time of day. The time code can also be generated implicitly via a timer which runs simultaneously. Each image is stored twice, on the one hand as an image compressed at low resolution and, on the other hand, as an image compressed at high resolution. The time codes, which indicate links between corresponding images, are also stored.

Classifications:

International (IPC 8-9): G06T9/00 H04N19/33 H04N7/18 H04N7/26

International (IPC 1-7): H04N5/262 H04N7/18 H04N7/26 H04N9/04

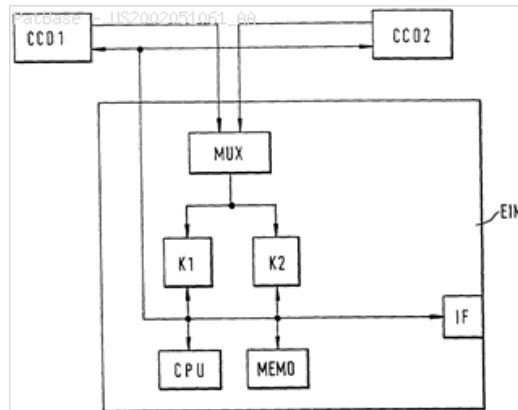
CPC: H04N19/33 H04N21/234327 H04N21/440227 H04N7/181

H04N7/183 H04N7/26345

US: 348/207 348/207.99 348/207.990P 348/231 348/231.99

348/231.990S 348/E7.086 348/E7.087 348/E70.86S 348/E70.87S

375/E7.088 375/E70.88S



Family:

Publication number	Publication date	Application number	Application date
DE10053683 A1	20020508	DE20001053683	20001028
EP1202572 A2	20020502	EP20010440353	20011022
EP1202572 A3	20020925	EP20010440353	20011022
US2002051061 AA	20020502	US20010983415	20011024

Priority:

DE20001053683 20001028

Probable Assignee: ALCATEL

Assignee(s): (std): ALCATEL SA ; CIT ALCATEL

Assignee(s): ALCATEL ; ALCATEL PARIS

Inventor(s): (std): PETERS WOLFGANG ; PETERS WOLFGANG DR ; SCHNEIDER GERHARD

Inventor(s): GERHARD SCHNEIDER ; WOLFGANG PETERS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2) Family number: 73973073 (US10260232 BA)

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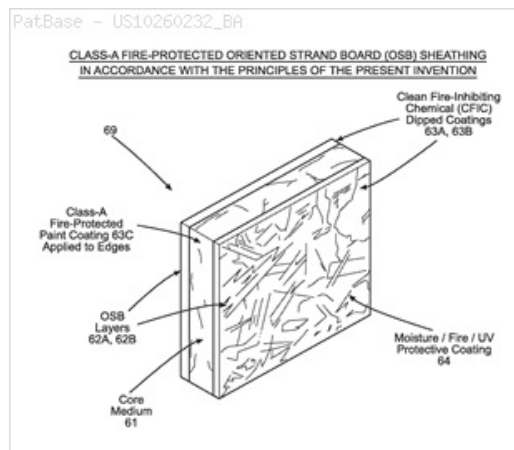
Title: METHODS OF DESIGNING AND CONSTRUCTING CLASS-A FIRE-PROTECTED MULTI-STORY WOOD-FRAMED BUILDINGS

Abstract: A method of and system for designing and constructing high-density multi-story wood-framed buildings, and Class-A fire-protected building components, and methods and factories for producing the same in an economical manner. An on-job-site method is provided for treating wood-framed buildings so that such wood-framed buildings demonstrate Class-A fire-protection and improved defense against total fire destruction.

Classifications:

International (IPC 8-9): A62C2/00 A62C2/06 A62C27/00 A62C3/00 A62C3/02 A62C3/08 A62C3/10 A62C31/00 A62C35/02 A62C37/00 A62C37/36 A62C37/38 A62C5/00 A62C99/00 A62D1/00 B05B9/00 B05C3/10 B05C9/08 B05D1/02 B05D1/18 B05D7/06 B27D1/10 B27D3/00 B27K1/02 B27K3/02 B27K3/04 B27K3/16 B27K3/20 B27K3/52 B27M1/08 B27N1/00 B27N3/02 B27N7/00 B27N9/00 B32B15/01 B32B15/16 B32B15/18 B32B21/02 B32B21/04 B32B21/13 B32B21/14 B32B3/06 B32B5/16 B32B7/00 B32B7/03 B32B7/12 B32B9/00 B32B9/04 B64C39/02 B65B11/00 B65B13/02 B65B35/50 B65G17/00 B65G23/02 C09K21/00 E04B1/10 E04B1/26 E04B1/76 E04B1/94 E04B2/70 E04C2/16 E04C2/24 E04C3/12 E04C3/14 E04C3/16 E04C3/17 E04C3/30 E04C3/36 E04D11/02 E04F13/14 E04H1/12 E04H5/02 E04H9/14 E06B5/16 F21S9/03 F26B25/14 F26B25/16 G06K19/06 G06K19/07 G06Q10/06 G06Q10/08 G06Q10/10 G06Q30/00 G06Q30/06 G06Q40/00 G06Q40/08 G06Q50/08 G08B25/10 H02S40/38 H04L29/08 H04W4/12

CPC: B05B9/00 B05C3/10 B05C9/08 B05D1/02 B05D1/18 B05D7/06 B27D1/10 B27D3/00 B27K1/02 B27K2240/30 B27K3/04 B27K3/52 B27M1/08 B27N3/02 B27N3/04 B27N3/143 B27N7/005 B27N9/00



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B32B7/005 B32B7/03 B32B7/12 B65B11/00 B65B11/004 B65B13/02 B65B35/50 B65G17/00 B65G23/02 C09K21/04
E04B1/26 E04B1/94 E04B1/943 E04B1/944 E04B2/70 E04B2001/2644 E04B2103/04 E04B5/12 E04B7/024 E04C2/16
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B32B2250/42 B32B2317/16 B32B37/0038 A62B5/00 A62C2/06 A62C3/002 A62C3/0257 B32B15/013 B32B15/16 B32B15/18
B32B2255/06 B32B5/16 B32B9/002 B32B9/041 E04H1/1205 E04H1/1261 F21S9/032 F21Y2115/10 H02S40/38 H04B1/38
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E04F13/141 E04H9/14 E06B5/16 G06F3/0346 C09K21/00 G06F16/27 G06F17/30283 G06Q40/10 G06Q10/06315
G06Q10/0832 G06Q10/0875 G06Q10/103 G06Q40/08
US: 1/1

Family:

Publication number	Publication date	Application number	Application date
US10260232 BA	20190416	US20170829914	20171202
US2019169838 AA	20190606	US20170829940	20171203
US2019168412 AA	20190606	US20170829941	20171203
US2019168413 AA	20190606	US20170829943	20171203
US2019169839 AA	20190606	US20170829944	20171203
US2019168409 AA	20190606	US20170829945	20171203
US10267034 BA	20190423	US20170829948	20171203
US2019169840 AA	20190606	US20170829951	20171203
US2019172149 AA	20190606	US20180029861	20180709
US2019168410 AA	20190606	US20180039291	20180718
US2019168036 AA	20190606	US20180041850	20180723
US2019171999 AA	20190606	US20180055001	20180803
US2019168035 AA	20190606	US20180104130	20180816
US2019168047 AA	20190606	US20180107473	20180821
US10653904 BB	20200519	US20180866451	20180109
US2019168034 AA	20190606	US20180866451	20180109
US10332222 BA	20190625	US20180866454	20180109
US2019172160 AA	20190606	US20180866454	20180109
US10311444 BA	20190604	US20180866456	20180109
US2019172071 AA	20190606	US20180866456	20180109
US10430757 BB	20191001	US20180874874	20180118
US2019171998 AA	20190606	US20180874874	20180118
US10695597 BB	20200630	US20180911172	20180305
US2019168033 AA	20190606	US20180911172	20180305
US10290004 BA	20190514	US20180921617	20180314
US2019172072 AA	20190606	US20180921617	20180314
US2019169841 AA	20190606	US20180925793	20180320
US2019169837 AA	20190606	US20180925796	20180320
US2019172161 AA	20190606	US20180952183	20180412
US2020151832 AA	20200514	US20190449389	20190622

Priority:

US20170829914 20171202	US20170829948 20171203	US20170829945 20171203
US20170829941 20171203	US20170829943 20171203	US20170829940 20171203
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US20180039291 20180718	US20180041850 20180723	US20180055001 20180803
US20180104130 20180816	US20180107473 20180821	US20190449389 20190622

Probable Assignee: M FIRE HOLDINGS LLC

Assignee(s): (std): M FIRE HOLDINGS LLC ; M FIRE SUPPRESSION INC ; M FIRE SUPPRESSION INC ; N FIRE SUPPRESSION INC

Inventor(s): (std): CONBOY STEPHEN

Agent(s): PERKOWSKI ESQ THOMAS J; THOMAS J PERKOWAKI ESQ PC; THOMAS J PERKOWSKI ESQ PC

3) Family number: 56748889 (US2014376491 AA)

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Title: GLASSES-TYPE COMMUNICATIONS APPARATUS, SYSTEM, AND METHOD

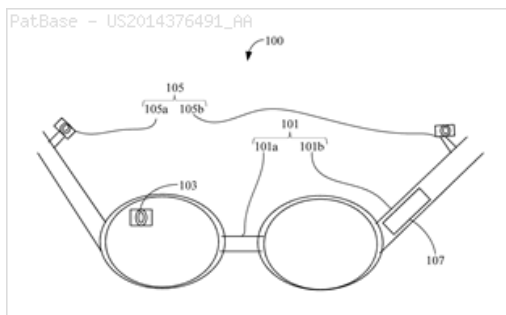
Abstract: A glasses-type communications apparatus, including: a frame; a display module set on the frame configured to receive data information and generate a corresponding visual picture according to the data information for the user to watch; a camera module set on the frame configured to obtain image information and transfer the image information; and a communications module set on the frame configured to set up a communications channel with an external processing apparatus by using a communications protocol, where the communications module receives data transmitted by the external processing apparatus through the communications channel, so as to parse the data to obtain the data information, and send the data information to the display module; where the communications module is further configured to receive the image information output by the camera module, and transfer the image information to the external processing apparatus by using the communications channel.

Classifications:

International (IPC 8-9): A61B5/01 A61B5/04 A61B5/053 G02B27/01 G02C11/00 H04B1/38 H04B1/3827 H04M1/02 H04M1/253 H04N7/18 H04W4/00 H04W4/02 H04W4/024 H04W4/16 H04W4/80

CPC: G02B2027/0123 G02B2027/0127 G02B2027/0138

G02B2027/014 G02B2027/0178 G02B27/017 G02C11/10 H04B1/385
H04B2001/3866 H04M1/0262 H04M1/0264 H04M1/0266 H04M1/2535
H04W4/024 H04W4/16 H04W4/80
US: 1/1 345/204 370/329 455/456.3



Family:

Publication number	Publication date	Application number	Application date
CN103888163 A	20140625	CN201210563136	20121222
CN105306082 A	20160203	CN201510600524	20121222
CN105306082 B	20181030	CN201510600524	20121222
CN105163268 A	20151216	CN201510600599	20121222
CN105163268 B	20200310	CN201510600599	20121222
CN105162482 A	20151216	CN201510600926	20121222
CN105208333 A	20151230	CN201510600945	20121222
CN105208333 B	20190510	CN201510600945	20121222
CN105120424 A	20151202	CN201510601002	20121222
CN105120424 B	20200214	CN201510601002	20121222
CN105262497 A	20160120	CN201510601004	20121222
CN105120441 A	20151202	CN201510601059	20121222
CN105141331 A	20151209	CN201510601205	20121222
CN105141331 B	20190827	CN201510601205	20121222
DE602013021436 D1	20170629	DE201360021436T	20130807
EP2800281 A1	20141105	EP20130863962	20130807
EP2800281 A4	20150325	EP20130863962	20130807
EP2800281 B1	20170517	EP20130863962	20130807
EP3249443 A2	20171129	EP20170151652	20130807
EP3249443 A3	20180418	EP20170151652	20130807
ES2631684 T3	20170904	ES20130863962T	20130807
US2014376491 AA	20141225	US20140466287	20140822
US9100097 BB	20150804	US20140466287	20140822
US2015295610 AA	20151015	US20150748762	20150624
US9813095 BB	20171107	US20150748762	20150624
WO14094439 A1	20140626	WO2013CN080960	20130807

Priority:

CN201210563136 20121222	CN201510601002 20121222	CN201510601205 20121222
CN201510600599 20121222	CN201510600945 20121222	CN201510600524 20121222
EP20130863962 20130807	WO2013CN080960 20130807	WO2013CN80960 20130807
US20140466287 20140822	US20150748762 20150624	

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD ; HUAWEI TECHNOLOGIES CO LTD

Assignee(s): HUAWEI TECHNOLOGIES CO

Inventor(s): (std): DONG MINGJIE ; HUANG KANGMIN ; HUANG MAOSHENG ; LI SHANFU ; TANG WEIDONG ; ZHANG HUIMIN ; ZHENG YULIN

Agent(s): CONLEY ROSE PC ; GRANT ; LEHMANN MARIA ISABEL ; MAIWALD PATENTANWALTS GMBH ; NICHOLAS K

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 SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 52529662 (US2012307069 AA)

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Title: SURVEILLANCE SYSTEM WITH VIDEO COMPRESSION FOR WIRELESS TRANSMISSION

Abstract: A digital surveillance system in which the output signal of the camera is highly compressed, to the extent that the compressed signal can be sent over relatively low bandwidth wireless networks, such as cellular networks. The compressed signal is then uploaded to the wireless network from where it can be relayed to a server, such as an internet server, from where it can be accessed, viewed, manipulated and further used by authorized personnel. Such authorized personnel need not be proximate to the surveillance equipment at all. The digital surveillance system can include fixed cameras mounted in fixed orientations and the signals of the various fixed cameras can be integrated into a wide view, as well as used as individual narrow views. These views are wirelessly communicated to an internet server from where they can be accessed, viewed, manipulated and further used by authorized personnel. To power the cameras and the wireless communication device, one or more solar panels are mounted on or applied to the fixed camera mount.

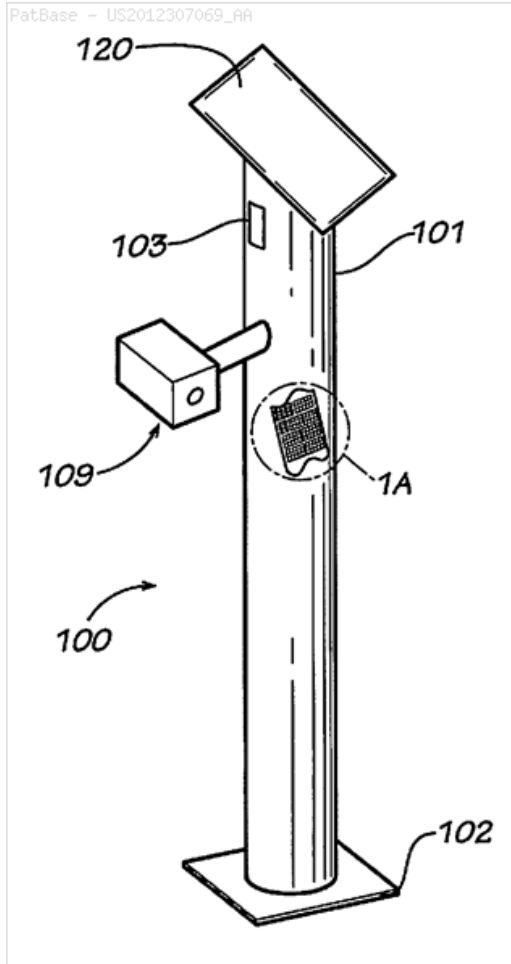
Classifications:

International (IPC 8-9): H04N7/18

CPC: H04N5/225 H04N5/2251 H04N5/2252 H04N5/23206

H04N5/23238 H04N5/247

US: 348/159 348/E.085



Family:

Publication number	Publication date	Application number	Application date
US2012307069 AA	20121206	US20110151558	20110602
US2012307070 AA	20121206	US20110190905	20110726

Priority:

US20110151558 20110602 US20110190905 20110726

Probable Assignee: L3 COMMUNICATIONS CORP

Assignee(s): (std): PIERCE JAMES

Assignee(s): L3 COMMUNICATIONS CORP

Inventor(s): (std): PIERCE JAMES

5) Family number: 58768033 (US2015084784 AA)

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Title: APIARY MONITORING SYSTEM

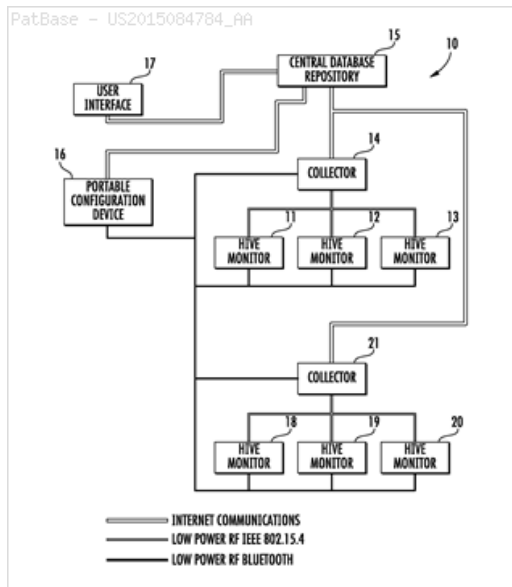
Abstract: A system for monitoring an comprises a hive monitor configured for measuring and transmitting data on hive parameters, a data collector communicating with the hive monitor for logging measurement data received from the hive monitor, the data collector configured for transmitting the logged data, and a central database repository communicating with the data collector for storing the logged data received from the data collector. The hive monitor comprises a controller, a power source for powering the controller, a load cell for measuring the weight of the hive, means for measuring parameters of the hive, and means for communicating measured data.

Classifications:

International (IPC 8-9): A01K47/00 A01K47/06 G08C17/02 H04Q9/02 H04W52/04

CPC: A01K47/06 G08C17/02 G08C2200/00 H04Q9/02 H04W52/04

US: 340/870.01

**Family:**

Publication number	Publication date	Application number	Application date
US2015084784 AA	20150326	US20140496734	20140925
WO15048308 A1	20150402	WO2014US57485	20140925

Priority:

US20130882391P 20130925 US20140496734 20140925

Probable Assignee: SOLUTIONBEE LLC

Assignee(s): (std): SOLUTIONBEE LLC

Inventor(s): (std): CABRERA RAFAEL ; CUCUIET CRISTIAN CORNEL ; DRAGOS MARCEL ; HOLDSCLAW SCOTT TURNER ; NICORESCU IONUT ADRIAN ; NITESCU DAVID ; PLIUTA SMARANDA DIANA ; SUTA VALENTIN ; TIMAR LUCIAN VASILE ; VETRES OVIDIU

Agent(s): JOHNSTON MICHAEL G

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

6) Family number: 69169909 (CN107896305 A)

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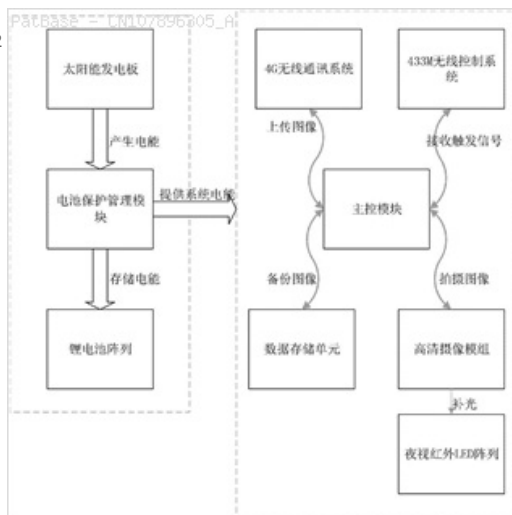
Title: RAPIDLY-DEPLOYABLE ULTRALOW-POWER-CONSUMPTION SNAPSHOT AND IMAGE TRANSMISSION SYSTEM

Abstract: The invention discloses a rapid-deployable ultralow-power-consumption snapshot and image transmission system. The rapidly-deployable ultralow-power-consumption snapshot and image transmission system comprises a solar panel, a battery protection and management module, a lithium battery array, a main control module, a 4G wireless communication system, a 433M wireless control system and a high-definition camera module, wherein high-voltage electric energy is output to a plurality of DC-DC (Direct-Current to Direct-Current) ultralow static current rectifying modules through the lithium battery array; low-voltage electric energy is supplied to a functional module; and a signal is transmitted through the 433M wireless control system, and the main control module is awakened to jump out of a sleeping outage system while the power supply of peripheral equipment is switched on after the generation of an external triggering signal is confirmed in order to realize normal working of a circuit. Through adoption of the rapid-deployable ultralow-power-consumption snapshot and image transmission system, the part of storage battery can be made smaller in order to lower cost and reduce mounting size; the difficulty in designing waterproofness, dust prevention and a heat-dissipation device is lowered greatly; a plurality of manners of detection triggering are supported; and shooting-uploading conditions can be judged in conjunction with a plurality of environment parameters.

Classifications:

International (IPC 8-9): G08C17/02 H02J7/35 H04N5/225 H04N5/232 H04N5/235 H04N5/33

CPC: G08C17/02 H02J7/35 H04N5/2256 H04N5/23203 H04N5/23241 H04N5/2351 H04N5/2354 H04N5/33

**Family:**

Publication number	Publication date	Application number	Application date
CN107896305 A	20180410	CN201711207555	20171127

Priority:

CN201711207555 20171127

Probable Assignee: GUANGZHOU HUAZHOU INFORMATION TECH CO LTD

Assignee(s): (std): GUANGZHOU HUAZHOU INFORMATION TECH CO LTD

Assignee(s): GUANGZHOU HUAZHOU INFORMATION TECHNOLOGY CO ; INFORMATION TECHNOLOGY CO LTD
GUANGZHOU CHINA ISLAND

Inventor(s): (std): CHEN SONGJIAN ; DING SHENGHUA ; DUAN ZHIBO

7) Family number: 57313537 (US2014250178 AA)

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Title: CONTENT BASED DISCOVERY OF SOCIAL CONNECTIONS

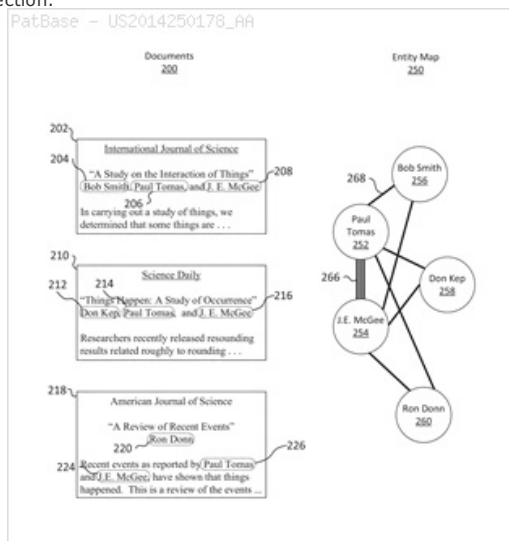
Abstract: Methods, systems, and computer-readable media are provided for identifying social connections. In some implementations, the occurrence of a first reference to a first person and a second reference to a second person is identified in unstructured data. A relationship metric is calculated between the first reference and the second reference, wherein the relationship metric is based at least in part on the co-occurrence of the first reference and the second reference. The existence of a potential connection between the first reference and the second reference is determined based at least in part on the relationship metric. A recommendation is provided to at least one of the first person and the second person to acknowledge the potential connection as an actual connection. Input is received from at least one of the first person and the second person confirming the potential connection as an actual connection.

Classifications:

International (IPC 8-9): G06Q50/10 G06Q50/30 H04L29/08

CPC: G06Q50/01 H04L67/306

US: 709/204



Family:

Publication number	Publication date	Application number	Application date
CN105190682 A	20151223	CN201480011033	20140227
EP2962274 A2	20160106	EP20140716652	20140227
US2014250178 AA	20140904	US20130783132	20130301
WO14134272 A2	20140904	WO2014US18922	20140227
WO14134272 A3	20150528	WO2014US18922	20140227

Priority:

US20130783132 20130301 WO2014US18922 20140227

Probable Assignee: GOOGLE INC

Assignee(s): (std): GOOGLE INC

Inventor(s): (std): HORLING BRYAN CHRISTOPHER ; SHIRAZI AFSANEH HAJIAMIN

Agent(s): CHAPMAN ERNEST F; FRASER KAREN

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

8) Family number: 55143595 (US2014301737 AA)

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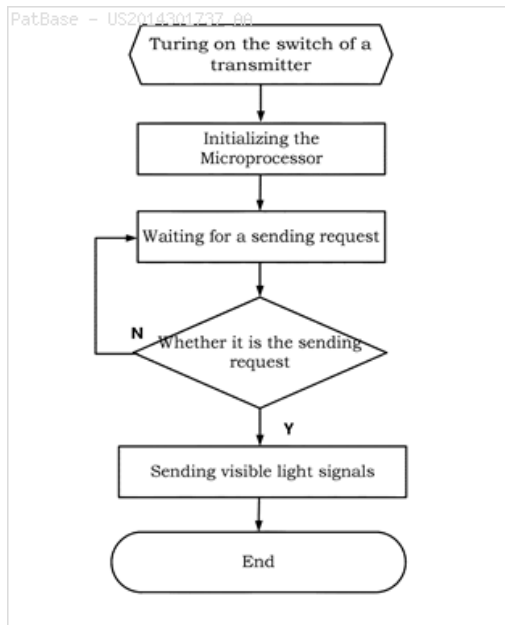
Title: METHODS AND DEVICES FOR TRANSMITTING/OBTAINING INFORMATION BY VISIBLE LIGHT SIGNAL

Abstract: The present invention discloses methods and devices for transmitting/obtaining information by visible light signal. The method for transmitting information by visible light signal from a light source comprising: modulating, on the basis of the information to be transmitted, a driving signal of the light source to obtain a modulated driving signal for driving the light source to emit visible light signal having its level changed between a peak level and a bottom level with varied frequencies at different time points; and emitting the visible light signal having its level changed between a peak level and a bottom level with varied frequencies at different time points on the basis of the modulated driving signal, so as to transmit information corresponding to the varied numbers of bright or dark stripes shown in one or more images obtained from the visible light signal at one or more time points, which numbers are corresponding to the varied frequencies.

Classifications:

International (IPC 8-9): G01C15/00 G01C21/00 G01S1/70

H04B10/116 H04N5/225 H04N5/232 H04N5/235 H04N5/243
H05B37/02
CPC: G01C15/002 G01C21/00 G01C21/206 H04B10/116 H05B47/10
H05B47/105 H05B47/125 H05B47/19 Y02B20/40
US: 1/1 315/291 315/307 398/118 398/172 702/150



Family:

Publication number	Publication date	Application number	Application date
CN103383446 A	20131106	CN201310231442	20130609
CN103383446 B	20170707	CN201310231442	20130609
CN103427902 A	20131204	CN201310232139	20130609
CN103825655 A	20140528	CN201310645568	20131203
CN103825655 B	20170707	CN201310645568	20131203
CN203574655 U	20140430	CN201320335796U	20130609
CN203519822 U	20140402	CN201320335810U	20130609
CN103983262 A	20140813	CN201410141189	20140409
CN103916185 A	20140709	CN201410141223	20140409
CN103916185 B	20171212	CN201410141223	20140409
CN104243029 A	20141224	CN201410141402	20140409
CN104243029 B	20181102	CN201410141402	20140409
CN104243030 A	20141224	CN201410141403	20140409
CN104243030 B	20181019	CN201410141403	20140409
CN103940419 A	20140723	CN201410143511	20140409
CN103940419 B	20170630	CN201410143511	20140409
US2014372072 AA	20141218	US20140246460	20140407
US2014301737 AA	20141009	US20140246503	20140407
US8934784 BB	20150113	US20140246503	20140407
US2016269112 AA	20160915	US20160161968	20160523

Priority:

CN201310121480	20130409	CN201310231442	20130609	CN201310232139	20130609
CN201320335810U	20130609	CN201320335796U	20130609	CN201310645568	20131203
US20140246460	20140407	CN201410141223	20140409	CN201410143511	20140409
CN201410141189	20140409	CN201410141402	20140409	CN201410141403	20140409
US20160161968	20160523				

Probable Assignee: ZHUHAI HENGQIN GREAT AIM VISIBLE LIGHT COMMUNICATION TECHNOLOGY CO LTD

Assignee(s): (std): BEIJING SEMICONDUCTOR LIGHTING TECHNOLOGY PROMOTION CT ; CHANGZHOU CITY WUJIN DISTR SEMICONDUCTOR LIGHTING APPLIC TECHNOLOGY RES INST ; ZHUHAI HENGQIN GREAT AIM OPTICAL COMM TECHNOLOGY CO LTD ; ZHUHAI HENGQIN GREAT AIM VISIBLE LIGHT COMM TECHNOLOGY CO LTD ; ZHUHAI HENGQIN GREAT AIM VISIBLE LIGHT COMMUNICATION TECH CO LTD ; ZHUHAI HENGQIN HUACE OPTICAL COMM TECHNOLOGY CO LTD ; ZHUHAI HENGQIN HUACE U BEACON SCIENCE AND TECHNOLOGY CO LTD ; ZHUHAI U BEACON OPTICAL COMM TECHNOLOGY CO LTD

Assignee(s): BEIJING SEMICONDUCTOR LIGHTING TECHNOLOGY PROMOTION CENTER ; CHANGZHOU CITY WUJIN DISTRICT SEMICONDUCTOR LIGHTING APPLICATION TECHNOLOGY RESEARCH INST ; ZHUHAI HENGQIN GREAT AIM OPTICAL COMMUNICATION TECHNOLOGY CO ; ZHUHAI HENGQIN GREAT AIM VISIBLE LIGHT COMMUNICATION TECHNOLOGY CO LTD ; ZHUHAI HENGQIN HUACE OPTICAL COMMUNICATION TECHNOLOGY CO ; ZHUHAI HENGQIN HUACE U BEACON SCIENCE AND TECHNOLOGY CO ; ZHUHAI U BEACON OPTICAL COMMUNICATION TECHNOLOGY CO

Inventor(s): (std): GUO CHENG ; HU HONG ; HUANG JIANMEI ; SHI LEI ; TANG QIN ; ZHANG GUOQI

Agent(s): BANNER AND WITCOFF LTD

9) Family number: 55700639 (US8639214 BA)

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Title: COMMUNICATION DEVICE

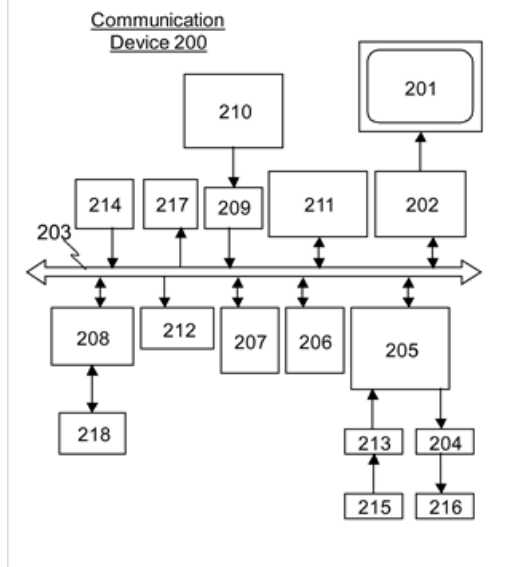
Abstract: The communication device comprising a voice communicating implementer, a payment monetary value data transmitting implementer, a remaining monetary value data updating implementer, an automated supplementary monetary value data adding implementer, and a simultaneous implementation implementer.

Classifications:

International (IPC 8-9): G06Q20/32 G06Q40/00 H04M11/00

CPC: G06Q20/32 H04L12/2818 H04M11/007

US: 1/1 379/88.03 455/406 455/407 455/408 455/414.4 455/418 455/456.1 455/47 704/270 705/13 705/30 705/41

**Family:**

Publication number	Publication date	Application number	Application date
US8639214 BA	20140128	US20070925728	20071026
US8676705 BA	20140318	US20130865191	20130418
US9082115 BA	20150714	US20140176132	20140209

Priority:

US20070925728 20071026 US20130865191 20130418 US20140176132 20140209

Probable Assignee: CORYDORAS TECHNOLOGIES LLC

Assignee(s): (std): FUJISAKI IWAO

Assignee(s): CORYDORAS TECHNOLOGIES LLC ; FUJISAKI JENNIFER ROH

Inventor(s): (std): FUJISAKI IWAO

10) Family number: 57701621 (US2014321859 AA)

© PatBase

Title: METHODS AND DEVICES FOR TRANSMITTING /OBTAINING INFORMATION BY VISIBLE LIGHT SIGNALS

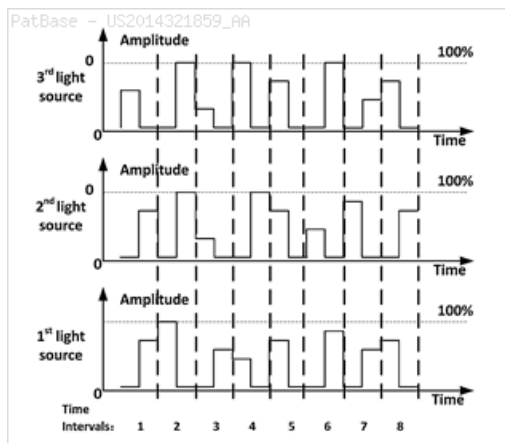
Abstract: The present invention discloses methods and devices for transmitting/obtaining information by visible light signals. The method for transmitting information by visible light signals of two or more wavelengths from light sources comprises: modulating, on the basis of the information to be transmitted, two or more driving signals of the light sources to obtain two or more modulated driving signals for driving the light sources to emit the visible light signals of two or more wavelengths having their levels changed between peak levels and bottom levels with different frequencies and/or different phases and/or different amplitudes; and emitting the visible light signals of two or more wavelengths having their levels changed between peak levels and bottom levels with different frequencies and/or different phases and/or different amplitudes on the basis of the two or more modulated driving signals, so as to transmit information corresponding to a pattern of color stripes shown in an image obtained from the visible light signals.

Classifications:

International (IPC 8-9): H04B10/00 H04B10/116

CPC: H04B10/116

US: 1/1 398/118

**Family:**

Publication number	Publication date	Application number	Application date
US2014321859 AA	20141030	US20130142278	20131227
US9407367 BB	20160802	US20130142278	20131227

Priority:

CN201310148797 20130425

Probable Assignee: BEIJING GUO CHENG WAN TONG INFORMATION CO LTD

Assignee(s): (std): BEIJING GUO CHENG WAN TONG INFORMATION CO LTD ; BEIJING GUO CHENG WAN TONG INFORMATION TECH CO LTD ; BEIJING GUO CHENG WAN TONG INFORMATION TECHNOLOGY CO LTD

Assignee(s): BEIJING SEMICONDUCTOR LIGHTING TECHNOLOGY PROMOTION CENTER

Inventor(s): (std): GUO CHENG ; HU HONG
Agent(s): BANNER AND WITCOFF LTD

11) Family number: 65967616 (US2017164267 AA)

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Title: APPARATUS TO INHIBIT MISUSE OF AN ELECTRICALLY POWERED DEVICE

Abstract: A system includes an electrical device comprising a power supply and circuitry and a supplemental device integrated into the electrical device. The supplemental device includes a tracker chip to receive current location data of the electrical device. The supplemental device also includes a switch with one side connected to the power supply and another side connected to the circuitry of the electrical device. The supplemental device also includes a processor and a memory chip including a stored predetermined location of the electrical device. The predetermined location is input in an encrypted format into a secure encoding chip. The processor is configured to receive the current location data from the tracker chip, compare the current location data with the predetermination location, and turn off the switch to disconnect the power supply from the circuitry if the current location data does not correspond to the predetermined location.

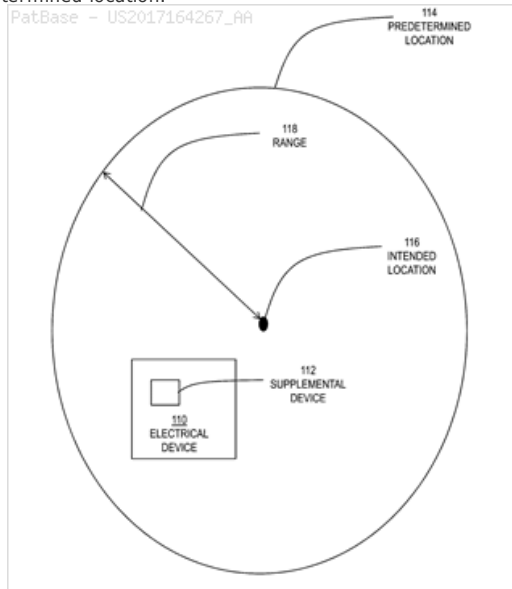
Classifications:

International (IPC 8-9): G01S19/16 G01S19/24 H04W4/02

H04W48/04 H04W52/02

CPC: G01S19/16 H04W4/021 H04W4/023 H04W48/04 H04W52/0251 Y02D30/70

US: 1/1 455/410



Family:

Publication number	Publication date	Application number	Application date
US2017164267 AA	20170608	US20160367716	20161202

Priority:

US20150262735P 20151203 US20160367716 20161202

Probable Assignee: TRUSTEES OF COLUMBIA UNIV IN CITY OF NEW YORK

Assignee(s): (std): BARTOS IMRE ; MARKA SZABOLCS ; MARKA ZSUZSANNA ; TRUSTEES OF COLUMBIA UNIV IN CITY OF NEW YORK ; UNIV COLUMBIA

Inventor(s): (std): BARTOS IMRE ; MARKA SZABOLCS ; MARKA ZSUZSANNA

12) Family number: 41843730 (US2010141762 AA)

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Title: WIRELESS NETWORK CAMERA SYSTEMS

Abstract: Apparatus, systems and techniques associated with battery powered wireless camera systems. One aspect of the subject matter described in this specification can be embodied in a system that includes a battery powered wireless camera including an internal battery to provide energy and a burst transmission unit to transmit information during burst periods. The system includes a base station, separated from the battery powered wireless camera, in wireless communication with the battery powered wireless camera to receive information from the battery powered wireless camera. The base station is configured to process the received information and includes a web server to transmit the processed information to a client. Other embodiments of this aspect include corresponding systems, apparatus, and computer program products.

Classifications:

International (IPC 8-9): G08B13/196 H04B7/00 H04N1/00 H04N21/442 H04N5/225 H04N5/232 H04N7/18 H04Q7/24 H04W4/00

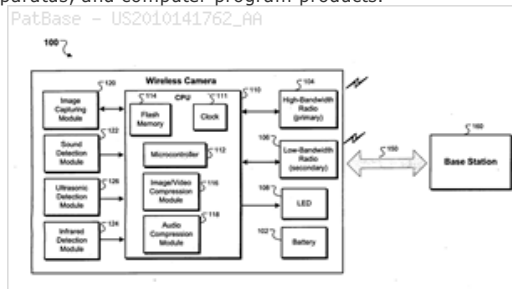
International (IPC 1-7): H04Q7/24

CPC: G08B13/19656 G08B13/1966 G08B13/19695 H04N1/00281 H04N1/00315 H04N21/44227 H04N5/2252 H04N5/23206 H04N5/23241 H04N5/232411 H04N5/23299 H04N7/181 H04N7/185

US: 1/1 348/143 348/143P 348/158 348/207.1 348/207.100S

348/372 348/372S 348/E5.024 348/E50.24S 348/E7.085

348/E70.85S 370/310 370/328



Family:

Publication number	Publication date	Application number	Application date
EP2100454 A2	20090916	EP20070868814	20071120
EP2100454 A4	20170726	EP20070868814	20071120
EP2100454 B1	20191030	EP20070868814	20071120

US2010141762 AA	20100610	US20070515691	20071120
US8050206 BB	20111101	US20070515691	20071120
US2011134243 AA	20110609	US20110022644	20110208
US8121078 BB	20120221	US20110022644	20110208
US2012147184 AA	20120614	US20120397715	20120216
US2015130935 AA	20150514	US20140559737	20141203
US9589434 BB	20170307	US20140559737	20141203
US2016127700 AA	20160505	US20160991328	20160108
US9640053 BB	20170502	US20160991328	20160108
US10326965 BB	20190618	US20170400375	20170106
US2017301201 AA	20171019	US20170400375	20170106
US2019213854 A9	20190711	US20170400375	20170106
US2019246072 AA	20190808	US20190382888	20190412
WO08064270 A2	20080529	WO2007US85308	20071120
WO08064270 A3	20080724	WO2007US85308	20071120

Priority:

US20060866587P	20061120	US20070896158P	20070321	WO2007US85308	20071120
US20070515691	20071120	US20100515691	20100219	US20110022644	20110208
US20120397715	20120216	US20140559737	20141203	US20160991328	20160108
US20170400375	20170106	US20190382888	20190412		

Probable Assignee: AXIS AB

Assignee(s): (std): AXIS AB ; ESPEY DENNIS JAMES ; MICROPOWER APPLIANCE ; MICROPOWER TECH INC ; MICROPOWER TECHNOLOGIES INC ; SIANN JON

Assignee(s): CREDIT MANAGEMENT ASSOCIATION ; CREDIT MANAGMENT ASSOCIATION ; MICROPOWER APPLICANCE

Inventor(s): (std): ESPEY DENNIS JAMES ; SIANN JON

Agent(s): AWA SWEDEN AB; FISH AND RICHARDSON PC; KO CHENG C; MUELLER LAW OFFICE PC; PETERREINS FRANK; VOLPE AND KOENIG PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 63713384 (US2016295172 AA)

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Title: LOW-POWER RADIO FREQUENCY NETWORK FOR A SYSTEM OF CAMERAS

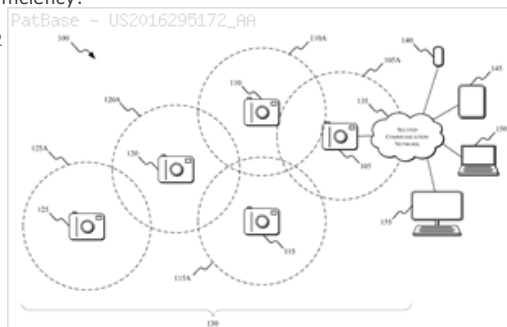
Abstract: A low-power radio frequency ("RF") network for a system of cameras that allows for efficient transmission of images (e.g., thumbnail images) from one or more REMOTE cameras or nodes to a centralized HOME camera or node. The network includes a variety of power saving features to optimize the battery life of the REMOTE cameras while still effectively transmitting captured images through the network. The power saving features include network path optimization for message and data transmission, synchronization of the wake and sleep states for each node in the network, the transfer of images from a camera module to an RF module of a node during a sleep state, etc. The network is also configured or operable to be implemented in such a manner that nodes can be readily added or removed from the network with minimal user input and without sacrificing power savings or network message transmission efficiency.

Classifications:

International (IPC 8-9): H04N1/00 H04N7/18 H04W52/00 H04W52/02 H04W56/00

CPC: H04N1/00106 H04N1/00315 H04N1/00347 H04N2201/0084 H04N7/181 H04N7/185 H04N7/20 H04W52/02 Y02D30/70

US: 1/1 348/159



Family:

Publication number	Publication date	Application number	Application date
US10499015 BB	20191203	US20160089964	20160404
US2016295172 AA	20161006	US20160089964	20160404
US2020084418 AA	20200312	US20190682637	20191113

Priority:

US20150142659P	20150403	US20160089964	20160404	US20190682637	20191113
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Probable Assignee: NON TYPICAL INC

Assignee(s): (std): NON TYPICAL INC

Inventor(s): (std): CUDDEBACK MARK J ; HIGGINS JAMES L ; MOMOSE JARED

Agent(s): MICHAEL BEST AND FRIEDRICH LLP

14) Family number: 69992410 (US2018157231 AA)

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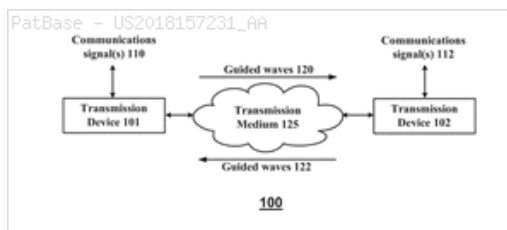
Title: METHOD AND APPARATUS FOR UTILITIES MANAGEMENT VIA GUIDED WAVE COMMUNICATION

Abstract: Aspects of the subject disclosure may include, for example, a utilities management system operable to receive via

a guided wave transceiver a plurality of utility status signals from a plurality of utility sensors located at a plurality of supervised sites. Utility control data is generated based on the plurality of utility status signals. At least one control signal is generated for transmission via the guided wave transceiver to at least one of the plurality of supervised sites, and the at least one control signal includes at least one utility deployment instruction based on the utility control data. Other embodiments are disclosed.

Classifications:

International (IPC 8-9): B60L11/18 B60L53/30 G05B19/042 H02J13/00 H02J3/38 H02J3/46 H02J7/00 H02J7/35 H04B3/54 H04L12/28 H04L12/46
CPC: B60L53/34 G05B15/02 G05B19/042 G05B2219/2642 H02J13/00007 H02J13/00017 H02J13/00024 H02J13/00026 H02J13/00028 H02J13/0075 H02J13/0086 H02J2300/24 H02J2300/28 H02J3/381 H02J3/383 H02J3/386 H02J3/46 H02J7/0027 H02J7/35 H04B3/54 H04L12/4625 H04L2012/2843 Y02E10/56 Y02E10/76 Y02E60/00 Y02T10/70 Y02T10/7072 Y02T90/12 Y02T90/16 Y04S10/126 Y04S40/121 Y04S40/124 Y04S40/126
US: 1/1 700/275



Family:

Publication number	Publication date	Application number	Application date
US10359749 BB	20190723	US20160371321	20161207
US2018157231 AA	20180607	US20160371321	20161207
US2019319671 AA	20191017	US20190426250	20190530

Priority:

US20160371321 20161207 US20190426250 20190530

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s): (std): AT AND T IP I LP

Assignee(s): AT AND T INTELLECTUAL PROPERTY I L P

Inventor(s): (std): BLANDINO GEORGE ; BOGDAN PAMELA A M ; LIU KEN ; LUBRANSKI LEON ; MYBURGH ERIC ; VAN BRAKLE TRACY

Agent(s): GUNTIN ED; STUCKMAN BRUCE E

15) Family number: 43550153 (US2009189981 AA)

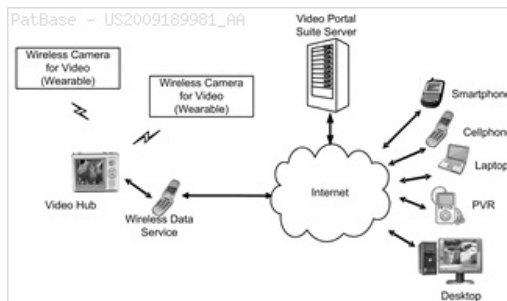
© PatBase

Title: VIDEO DELIVERY SYSTEMS USING WIRELESS CAMERAS

Abstract: Systems, apparatuses, and techniques for video delivery can include one or more of the following: a wireless camera arranged in a wearable form factor comprising a battery to provide energy, and configured to generate a video feed, and a base station in wireless communication with the wireless camera and configured to receive the video feed from the wireless camera and process the video feed, and a video portal device communicatively coupled with the base station and configured to receive the processed video feed from the base station and deliver at least a portion of the processed video feed to one or more remote clients. A base station can reserve a wireless channel for the wireless camera for a video transmission.

Classifications:

International (IPC 8-9): H04N21/4223 H04N21/61 H04N21/6373 H04N5/225 H04N7/18 H04N9/47 H04W72/12 H04W84/02 H04W84/04
CPC: H04N21/4223 H04N21/6181 H04N21/6373 H04N5/225 H04N7/181 H04N7/183 H04N7/185 H04N7/188 H04W72/1284
US: 1/1 348/143 348/143P 348/158 348/158P 348/E7.085 348/E70.855



Family:

Publication number	Publication date	Application number	Application date
EP2238758 A2	20101013	EP20090703624	20090123
EP2238758 A4	20131218	EP20090703624	20090123
US2009189981 AA	20090730	US20090359259	20090123
US9282297 BB	20160308	US20090359259	20090123
US2011096168 AA	20110428	US20110984587	20110104
US10687028 BB	20200616	US20160052677	20160224
US2016173833 AA	20160616	US20160052677	20160224
US2020244930 AA	20200730	US20200850502	20200416
WO09094591 A2	20090730	WO2009US31908	20090123
WO09094591 A3	20091029	WO2009US31908	20090123

Priority:

US20080023369P 20080124 US20080023369 20080124 WO2009US31908 20090123
US20090359259 20090123 US20110984587 20110104 US20160052677 20160224
US20200850502 20200416

Probable Assignee: AXIS AB

Assignee(s): (std): AXIS AB ; MICROPOWER APPLIANCE ; MICROPOWER TECHNOLOGIES INC ; SIANN JON ; WALLACE BRADFORD S

Assignee(s): CREDIT MANAGEMENT ASSOCIATION

Inventor(s): (std): SIANN JON ; WALLACE BRADFORD S

Agent(s): AI BING; FISH AND RICHARDSON PC; MUELLER LAW OFFICE PC; PETERREINS FRANK; VOLPE AND KOENIG PC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV
SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 69993422 (US2018159595 AA)

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Title: METHOD AND APPARATUS FOR REPEATING GUIDED WAVE COMMUNICATION SIGNALS

Abstract: Aspects of the subject disclosure may include, for example, a guided wave repeater system operable to receive via a guided wave transceiver a first plurality of electromagnetic waves that includes a first communication signal. A second plurality of electromagnetic waves that includes a second communication signal is transmitted via the guided wave transceiver. The first plurality of electromagnetic waves and the second plurality of electromagnetic waves are guided by a power line of a utility pole. A third communication signal is received from a smart grid device. A fourth communication signal is transmitted to the smart grid device. Other embodiments are disclosed.

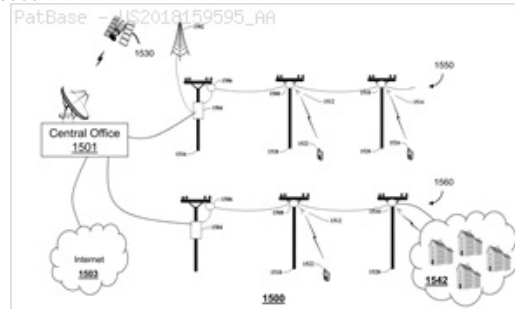
Classifications:

International (IPC 8-9): H01P3/16 H01P5/103 H01Q13/02

H01Q13/20 H01Q13/26 H04B17/40 H04B3/56 H04B3/58

CPC: H01P5/103 H01Q13/02 H01Q13/26 H04B17/408
H04B2203/5425 H04B2203/5441 H04B2203/5445 H04B2203/5458
H04B2203/5479 H04B3/56 H04B3/58

US: 1/1 375/258



Family:

Publication number	Publication date	Application number	Application date
US10439675 BB	20191008	US20160369993	20161206
US2018159595 AA	20180607	US20160369993	20161206

Priority:

US20160369993 20161206

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s): (std): AT AND T IP I LP

Assignee(s): AT AND T INTELLECTUAL PROPERTY I L P

Inventor(s): (std): BARNICKEL DONALD J ; BARZEGAR FARHAD ; BENNETT ROBERT ; BOGDAN PAMELA A M ; GERSZBERG IRWIN ; HENRY PAUL SHALA ; JOHNSON SHIKIK ; WILLIS III THOMAS M

Agent(s): GUNTIN ED; STUCKMAN PHD BRUCE E

17) Family number: 69992946 (US2018158299 AA)

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Title: METHOD AND APPARATUS FOR SURVEILLANCE VIA GUIDED WAVE COMMUNICATION

Abstract: Aspects of the subject disclosure may include, for example, a surveillance system operable to generate surveillance data based on a sensor input to at least one sensor device. A plurality of electromagnetic waves is generated for transmission to an administrator system of the surveillance system via a guided wave transceiver, where the plurality of electromagnetic waves includes a surveillance data signal generated based on the surveillance data. Other embodiments are disclosed.

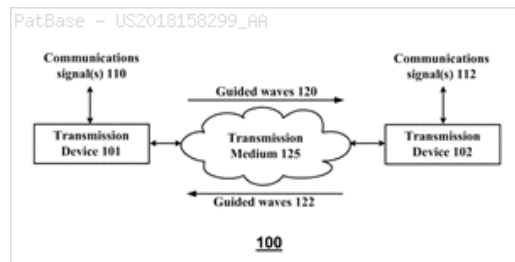
Classifications:

International (IPC 8-9): G06K9/00 G06T7/20 G08B13/196

G08B25/06 H04B3/54 H04N5/225 H04N7/10

CPC: G06K9/00228 G06K9/00771 G06T2207/30232 G06T7/20
G08B13/19608 G08B13/19613 G08B13/1963 G08B13/19656
G08B25/06 H04B3/54 H04N5/2256 H04N7/10

US: 1/1 348/155



Family:

Publication number	Publication date	Application number	Application date
US10755542 BB	20200825	US20160370607	20161206
US2018158299 AA	20180607	US20160370607	20161206

Priority:

US20160370607 20161206

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s): (std): AT AND T INTELLECTUAL PROPERTY I LP ; AT AND T IP I LP

Inventor(s): (std): BLANDINO GEORGE ; BOGDAN PAM A M ; BOGDAN PAMELA A M ; LIU KEN ; LUBRANSKI LEON ; MYBURGH ERIC ; VAN BRAKLE TRACY

Agent(s): DAS ATANU; GUNTIN AND GUST PLC

Title: METHOD AND APPARATUS FOR BROADCAST COMMUNICATION VIA GUIDED WAVES

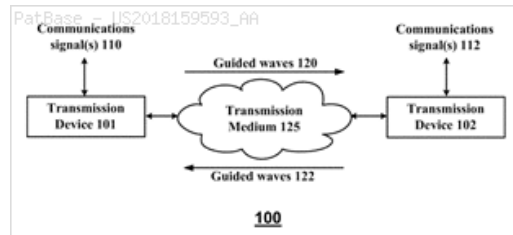
Abstract: Aspects of the subject disclosure may include, for example, a broadcast communication system that is operable to detect a first power outage. A first plurality of electromagnetic waves is generated for transmission to a plurality of user devices of the broadcast communication system via a guided wave transceiver, where the first plurality of electromagnetic waves includes an outage status signal generated in response to detecting the first power outage, and where the first plurality of electromagnetic waves is guided by at least one transmission medium and propagates without utilizing an electrical return path. Other embodiments are disclosed.

Classifications:

International (IPC 8-9): H04B3/52 H04B3/54 H04L12/18 H04L12/28 H04L29/08

CPC: H04B3/52 H04B3/54 H04L12/1895 H04L12/2825 H04L12/413 H04L12/4625 H04L12/4633 H04L67/26

US: 1/1 375/256

**Family:**

Publication number	Publication date	Application number	Application date
US10020844 BB	20180710	US20160370603	20161206
US2018159593 AA	20180607	US20160370603	20161206
US2018287663 AA	20181004	US20180000170	20180605

Priority:

US20160370603 20161206 US20180000170 20180605

Probable Assignee: AT AND T INTELLECTUAL PROPERTY I LP

Assignee(s): (std): AT AND T IP I LP ; T AND T INTELLECTUAL PROPERTY I L P

Assignee(s): AT AND T INTELLECTUAL PROPERTY I L P

Inventor(s): (std): BLANDINO GEORGE ; BOGDAN PAMELA A M ; LIU KEN ; LUBRANSKI LEON ; MYBURGH ERIC ; VAN BRAKLE TRACY

Agent(s): BRUCE E; ED

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

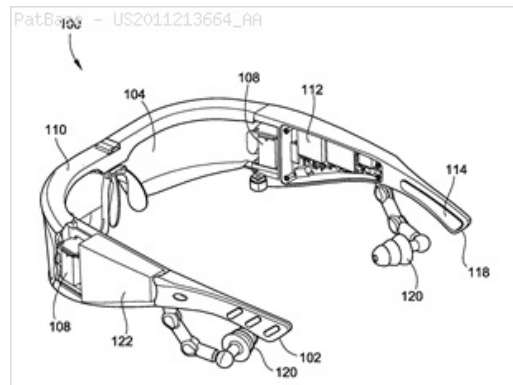
Abstract: This disclosure concerns an interactive head-mounted eyepiece including an optical assembly through which the user views a surrounding environment and displayed content. The displayed content includes a local advertisement, wherein the location of the eyepiece is determined by an integrated 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): A61B3/113 F21V8/00 G01C21/00 G01C21/36 G02B27/00 G02B27/01 G02B27/02 G02B27/14 G02B5/18 G02B5/23 G02B5/30 G02B6/00 G02B6/12 G02B7/00 G02C11/00 G02C11/04 G02C7/00 G02F1/1335 G02F1/13357 G03B21/26 G03H1/00 G03H1/22 G06F1/16 G06F13/00 G06F17/00 G06F17/30 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0346 G06F3/0354 G06F3/041 G06F3/042 G06F3/048 G06F3/0488 G06F3/14 G06K9/00 G06Q30/00 G06Q30/02 G06Q30/04 G06T15/00 G06T19/00 G09G5/00 G09G5/02 G09G5/10 G09G5/377 G10L19/00 H04N13/04 H04N5/225 H04N5/232 H04N5/44 H04N5/64 H04N7/14 H04N7/15 H04N7/18

CPC: G02B2027/0138 G02B2027/0178 G02B27/017 G02B27/0172 G02C11/10 G06F1/1673 G06F3/011 G06F3/012 G06F3/013 G06F3/014 G06F3/017 G06F3/0481 G06F3/14 G06K9/00604 G06K9/00617 G06Q30/02 G06Q30/0261 H04N5/2254 H04N5/23206 H04N5/23293 H04N5/232945 H04N5/44 G02B2027/0118 G02B27/1066 G02B27/281 G02B5/30 G02B6/00 G02B2027/0112 G02B27/0093 G02B27/0176 G06F1/163 G06F3/167 G02B2027/014 G06F3/005 G01C21/3629 G02B2027/0187 G02C7/08 G02C7/086 G02C9/00 G04G21/025 G04G21/04 G04G21/08 G06F2203/0331 G06F2203/0338 G06F3/016 G06F3/0304 G06F3/03547 G06F3/0428 G06K9/00255 G06K9/00671 G02C7/00 G06F3/04886 G02B2027/0123 G02B27/0149 G05D1/0016 G02B2027/0132 G06F21/32 G02B2027/0134 H04R1/028 H04R1/1041 G02B5/3058 H04R3/005 G02B6/12009 G02B6/0038 G02B6/0045 G02B6/0053 G02B6/0056 G02B2027/0127 G02B2027/0147 G02B5/18 G02B5/23 G02B7/008 G03H1/2294 G02B2027/011 G06F3/0233 G06F3/0236 G06F3/04815 A61B3/113 G02B2207/113 G02B2207/115 H04N13/366 H04N7/142 H04N7/15 G02C5/143 G06F3/04842 G09G2360/144 G09G3/001 G09G3/342 G09G3/346 G02B6/12019 G06T19/006 G06F3/165 G06F13/00 G06F3/0227 G06F3/0346 G06F3/0488 G02B5/04 G02B5/1842 G02B5/28 G02B6/0011

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:**

Publication number	Publication date	Application number	Application date
AU2011220382 AA	20121018	AU20110220382	20110228
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CA2828413 AA	20130827	CA20122828413	20120125
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CN103946732 A	20140723	CN201280046955	20120926
CN103946732 B	20190614	CN201280046955	20120926
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DE112012001032 T5	20140130	DE201211001032T	20120125

EP2539759 A1	20130102	EP20110713104	20110228
EP2761362 A2	20140806	EP20120837262	20120926
EP2761362 A4	20140806	EP20120837262	20120926
JP2013521576 T2	20130610	JP20120556146T	20110228
JP2015504616 T2	20150212	JP20140533694T	20120926
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KR20140066258 A	20140530	KR20147011240	20120926
US2011214082 AA	20110901	US20110037324	20110228
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WO12037290 A3	20120712	WO2011US51650	20110914
WO12118573 A1	20120907	WO2012US22492	20120125
WO12118575 A2	20120907	WO2012US22568	20120125
WO12118575 A3	20130314	WO2012US22568	20120125
WO13049248 A2	20130404	WO2012US57387	20120926
WO13049248 A3	20130704	WO2012US57387	20120926

Priority:

US20100308973P	20100228	US20100373791P	20100813	US20100382578P	20100914
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Assignee(s): (std): BIETRY JOSEPH ; BORDER JOHN N ; CELLA CHARLES ; HADDICK JOHN D ; KING III ROBERT W ; KING ROBERT W ; LOHSE ROBERT MICHAEL ; MICROSOFT CORP ; MICROSOFT TECH LICENSING LLC ; MICROSOFT TECHNOLOGY LICENSING LLC ; MILLER GREGORY D ; NORTRUP EDWARD H ; NORTRUP ROBERT J ; OSTERHOUT GROUP INC ; OSTERHOUT RALPH F ; POLINKO NICHOLAS R ; STOVALL ROSS W ; WILDER KELLIE A

Assignee(s): MICROSOFT CORPONE MICROSOFT WAYREDMONDWA98052-6399US ; OSTERHOUT GROUP INC153 TOWNSEND STREETSUITE 570SAN FRANCISCOCA94107US

Inventor(s): (std): BIETRY JOSEPH ; BORDER JOHN N ; CELLA CHARLES ; HADDICK JOHN D ; KING III ROBERT W ; KING ROBERT W ; LOHSE ROBERT MICHAEL ; MILLER GREGORY D ; NORTRUP EDWARD H ; NORTRUP ROBERT J ; OSTERHOUT RALPH F ; POLINKO NICHOLAS R ; SHAMS NIMA L ; STOVALL ROSS W ; WILDER KELLIE A

Inventor(s): BIETRY JOSEPHUS ; BORDER JOHN NUS ; HADDICK JOHN DUS ; LOHSE ROBERT MICHAELUS

Agent(s): A J PARK; AJ PARK; ALLEMAN HALL CREASMAN AND TUTTLE LLP; BORDEN LADNER GERVAIS LLP;

FINDLAY ALICE ROSEMARY; FISCHER MICHAEL MARIA; GTC LAW GROUP LLP AND AFFILIATES; JEREMY; JIM; JUDY; KOBAYASHI YASUSHI; LEONARD; MICAH; MICKY; NAKAMURA SHOGO; NAKANISHI MOTOHARU; OKEY DAVID W; ONO SHINJIRO; RACHAEL; SMART AND BIGGAR; TAKEUCHI SHIGEO; YAMAMOTO OSAMU

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

20) Family number: 54513488 (US2013201316 AA)

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Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

Abstract: A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.

Classifications:

International (IPC 8-9): B60K31/00 B60K31/18 G01C21/00

G07C5/00 G08G1/00 H04L29/08

CPC: B60K31/00 B60K31/18 B60Y2200/11 B60Y2200/12

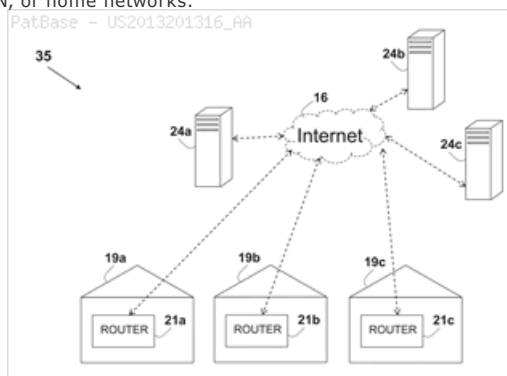
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G08G1/00 H04L67/12 Y04S40/18

US: 1/1 348/143 348/77 370/276 700/22 700/28 701/2 701/31.4

701/48 709/218



Family:

Publication number	Publication date	Application number	Application date
US2013201316 AA	20130808	US20130733634	20130103
US2017078400 AA	20170316	US20160361434	20161127
US2017331899 AA	20171116	US20170657163	20170723
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Priority:

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Probable Assignee:

MAY PATENTS LTD

Assignee(s): (std):

MAY PATENTS LTD

Inventor(s): (std):

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