

1) Family number: 54421002 (US2013195069A)

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Title: SIGNALING MECHANISM FOR SUPPORTING FLEXIBLE PHYSICAL BROADCAST CHANNEL AND COMMON REFERENCE SIGNAL CONFIGURATIONS

Abstract: A method, apparatus, system, and non-transitory computer readable medium are provided that can provide a signaling mechanism on a physical broadcast channel. The signaling mechanism generates system configuration information, and uses one or more bits within the physical broadcast channel to store system configuration information. The signaling mechanism further signals the system configuration information to devices within a cell of a communication system.

Classifications:

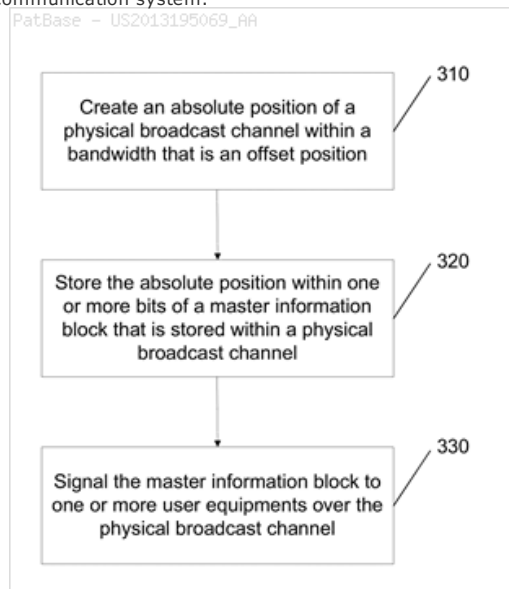
International (IPC 8-9): H04W48/12 H04W56/00

H04W72/04 (Advanced/Invention)

CPC: H04W48/12 H04L5/0023 H04L5/0048 H04L5/0053 H04L5/0092

H04L5/1469

US: 370/329 370/330 370/336

**Family:**

Publication number	Publication date	Application number	Application date
CN104081828 A	20141001	CN201380007158	20130130
EP2810487 A1	20141210	EP20130701638	20130130
US2013195069 AA	20130801	US20120361290	20120130
WO13113711 A1	20130808	WO2013EP51711	20130130

Priority:

US20120361290 20120130 WO2013EP51711 20130130

Probable Assignee: NOKIA SOLUTIONS AND NETWORKS OY

Assignee(s): (std): FREDERIKSEN FRANK ; LUNTTILA TIMO ERKKI ; NOKIA SIEMENS NETWORKS OY ; NOKIA SOLUTIONS AND NETWORKS OY ; ROSA CLAUDIO ; SKOV PETER

Inventor(s): (std): SKOV PETER ; ROSA CLAUDIO ; LUNTTILA TIMO ERKKI ; FREDERIKSEN FRANK

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

2) Family number: 65136184 (US2018227148A)

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Title: METHODS AND APPARATUSES FOR CHANNEL ESTIMATION FOR NB-PBCH IN NB-LTE SYSTEMS

Abstract: Embodiments of the present disclosure describe systems, devices, and methods for channel estimation for NB-PBCH in NB-LTE systems. Various embodiments may relate to options that can be used for demodulation of the NB-PBCH by the NB-LTE-UEs, and in certain embodiments may include a reference signal (RS) usable for demodulation of the NB-PBCH by the NB-LTE-UEs. Other embodiments may be described or claimed.

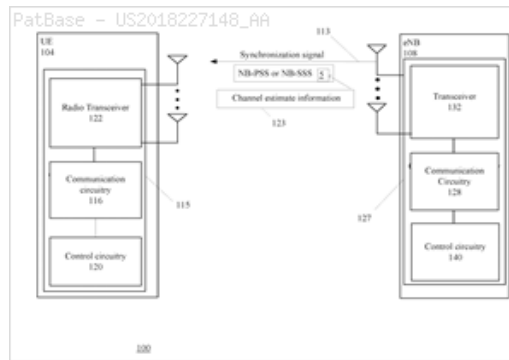
Classifications:

International (IPC 8-9): H04B17/309 H04L25/02 H04L5/00 H04W56/00

H04W74/00 (Advanced/Invention)

CPC: H04L25/022 H04L5/0007 H04L5/005 H04L25/0226

US: 1/1 370/328



Family:

Publication number	Publication date	Application number	Application date
DE112015006872 T5	20180517	DE201511006872T	20151221
TW201720200 A	20170601	TW20160123768	20160727
US2018227148 AA	20180809	US20150749307	20151221
US10601613 BB	20200324	US20150749307	20151221
WO17039739 A1	20170309	WO2015US67094	20151221

Priority:

US20150213568P 20150902 US20150749307 20151221 WO2015US67094 20151221

Probable Assignee: INTEL CORP

Assignee(s): (std): APPLE INC ; INTEL CORP ; INTEL IP CORP

Inventor(s): (std): CHATTERJEE DEBDEEP ; XIONG GANG

Agent(s): FISH AND RICHARDSON PC; COFIELD MICHAEL A 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

3) Family number: 55155425 (WO13166688A1)

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Title: COMMUNICATION METHOD AND SYSTEM, USER EQUIPMENT AND NETWORK SIDE DEVICE

Abstract: A communication method and system, user equipment (UE), and network side device, the communication method in an embodiment of the present invention comprising: the UE acquires first information transmitted by the network side device in a current carrier, the first information being used to indicate the current carrier type; the UE determines the current carrier type according to the first information, enabling the UE to identify the current carrier type and realize data transmission.

Classifications:

International (IPC 8-9): H04W4/06 (Advanced/Invention)

CPC: H04W28/18 H04W48/08 H04W72/00



Family:

Publication number	Publication date	Application number	Application date
CN103548365 A	20140129	CN201280000576	20120510
WO13166688 A1	20131114	WO2012CN75302	20120510

Priority:

WO2012CN75302 20120510

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): GUAN LEI ; HUAWEI TECH CO LTD

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

Inventor(s): (std): GUAN LEI

Agent(s): SHENPAT INTELLECTUAL PROPERTY AGENCY

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

Abstract: One embodiment of the present invention is a method in which a terminal receives control information through an Enhanced Physical Downlink Control Channel (EPDCCH) in a wireless communication system, the method comprising a step of trying EPDCCH decoding for each of a plurality of EPDCCH Physical Resource Block (PRB) sets. The terminal determines an EPDCCH-mapped resource element using a parameter set for each EPDCCH PRB set for each of the plurality of EPDCCH PRB sets when trying the decoding. The parameter set includes a Cell-specific Reference Signal (CRS)-related parameter, a Channel State Information-Reference Signal (CSI-RS)-related parameter, and a Physical Downlink Control Channel (PDCCH)-related parameter.

Classifications:

International (IPC 8-9): H04B7/02 H04B7/06 H04B7/26 H04J11/00 H04L27/26 H04L5/00 H04W16/32 H04W28/16

H04W72/04 (Advanced/Invention)

CPC: H04B7/0626 H04B7/024 H04L5/0035 H04L5/0048 H04W72/042

H04L5/0007 H04L5/0053 H04L1/0046 H04L1/0072 H04L1/1896

H04L27/2666

US: 370/329

JP F-Term: 5K004 5K022 5K067 5K067/AA11 5K067/BB04 5K067/DD27

5K067/DD34 5K067/EE02 5K067/EE10 5K067/JJ02 5K067/JJ13

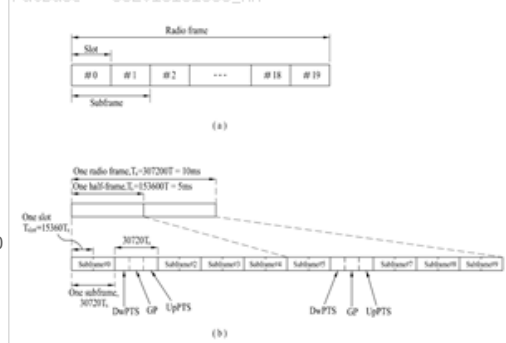
5K067/EE24 5K067/EE54 5K067/EE56 5K067/EE61 5K067/EE71

5K067/GG11 5K067/KK03

JP F-Index: H04J11/00/Z H04L27/26/113 H04L27/26/114 H04L27/26/410

H04W72/04/136 H04L27/26/100 H04W16/32 H04W28/16

PatBase - US2015181568_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN104350695 A	20150211	CN201380029755	20130605
EP2858265 A1	20150408	EP20130801092	20130605
EP2858265 A4	20151230	EP20130801092	20130605
JP2015525519 T2	20150903	JP20150515946T	20130605
JP2017028708 A2	20170202	JP20160164807	20160825
JP5997374 B2	20160928	JP20150515946T	20130605
JP6359598 B2	20180718	JP20160164807	20160825
KR20130136932 A	20131213	KR20130064486	20130605
US2015181568 AA	20150625	US20130401895	20130605
WO13183943 A1	20131212	WO2013KR04973	20130605

Priority:

US20120655500P 20120605 US20120695306P 20120831 JP20150515946T 20130605
KR20130064486 20130605 US20130401895 20130605 WO2013KR04973 20130605
JP20160164807 20160825

Probable Assignee: LG ELECTRONICS

Assignee(s): (std): LG ELECTRONICS ; LG ELECTRONICS INC

Inventor(s): (std): SEO INKWON ; SEO HANBYUL ; SEO IN KWON ; SEO HAN BYUL

Agent(s): CABINET PLASSERAUD; AOKI ATSUSHI; TSURUTA JUNICHI; KIM YONG IN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP 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: COMMUNICATION SYSTEM, TRANSMITTING STATION, RECEIVING STATION, AND COMMUNICATION METHOD

Abstract: This communication system (100) is provided with transmitting stations (110) and a receiving station (130). Each transmitting station (110) transmits a wireless signal in which a periodic time resource is allocated to a series of synchronization signals corresponding to identifying information for that transmitting station (110) and a time resource corresponding to said series of synchronization signals is allocated to a specific signal. The receiving station (130) detects the aforementioned synchronization signals from the wireless signal transmitted by a transmitting station (110), and on the basis of the detected series of synchronization signals, identifies the time resource allocated to the aforementioned specific signal. Then, on the basis of the identified time resource, the receiving station (130) detects said specific signal from aforementioned wireless signal.

Classifications:

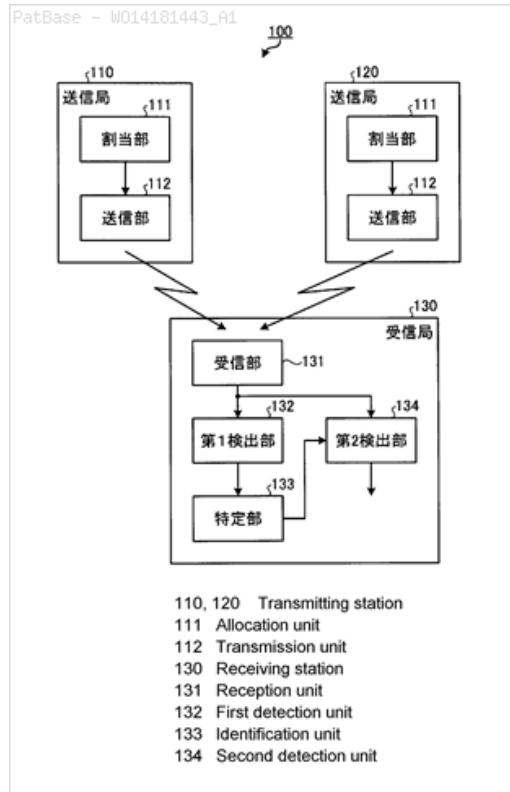
International (IPC 8-9): H04W16/32 H04W72/04 (Advanced/Invention)

CPC: H04W72/0413 H04W72/0446 H04W56/001

JP F-Term: 5K067 5K067/CC06 5K067/EE02 5K067/EE10 5K067/EE72

JP F-Index: H04W16/32 H04W72/04/131 H04W72/04/132

H04W72/04/136

**Family:**

Publication number	Publication date	Application number	Application date
JP2014181443 A1	20170223	JP20150515711T	20130509
JP6020716 B1	20161102	JP20150515711T	20130509
WO14181443 A1	20141113	WO2013JP63087	20130509

Priority:

WO2013JP63087 20130509

Probable Assignee: FUJITSU LTD**Assignee(s):** (std): FUJITSU LTD**Inventor(s):** (std): SHIIZAKI KOTARO ; TANAKA YOSHINORI**Agent(s):** SAKAI AKINORI

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

6) Family number: 53426785 (US2014226551A)

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Title: TERMINAL APPARATUS, COMMUNICATION SYSTEM, COMMUNICATION METHOD, AND BASE STATION APPARATUS

Abstract: In a communication system in which a base station apparatus and a terminal apparatus communicate with each other, a base station apparatus, a terminal apparatus, and a communication system with which the base station apparatus and the terminal apparatus can efficiently communicate with each other are provided. The terminal apparatus that communicates with the base station apparatus includes a radio resource control section 6011 that sets a first uplink power control-related parameter configuration and a second uplink power control-related parameter configuration in accordance with information included in a radio resource control (RRC) signal, a reception unit 605 that determines a type of downlink control information (DCI) format, a transmission power control section 6015 that sets uplink transmission power on the basis of the first uplink power control-related parameter configuration or the second uplink power control-related parameter configuration, and a transmission unit 607 that transmits an uplink signal with the set uplink transmission power.

Classifications:**International (IPC 8-9):** H04J11/00 H04J13/00 H04W52/04 H04W52/14

H04W52/16 H04W52/24 H04W52/32 H04W52/40 H04W52/54

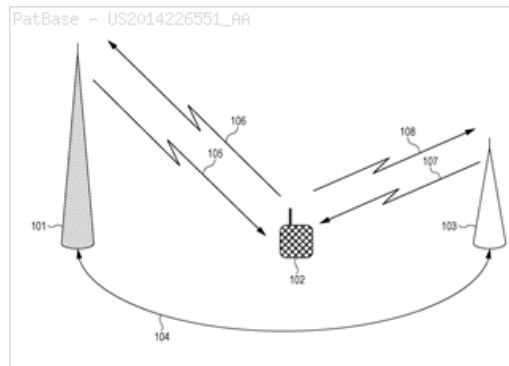
H04W72/04 (Advanced/Invention);

H04W52/14 H04W52/24 (Advanced/Non-invention)

CPC: H04W52/146 H04W52/244 H04W52/247 H04W52/325 H04W52/40

H04W52/54 H04W52/04 H04W72/0406 H04W72/0473

US: 1/1 370/311**JP F-Term:** 5K004 5K022 5K067 5K067/AA13 5K067/DD43 5K067/DD44 5K067/GG08**JP F-Index:** H04J11/00/Z H04J13/00/100 H04L27/26/114 H04L27/26/300 H04Q7/00/435 H04Q7/00/440 H04W52/14 H04W52/24



Family:

Publication number	Publication date	Application number	Application date
CN103843422 A	20140604	CN201280047823	20120905
CN103843422 B	20180508	CN201280047823	20120905
DE602012039625 D1	20171214	DE201260039625T	20120905
EP2763470 A1	20140806	EP20120835413	20120905
EP2763470 A4	20150805	EP20120835413	20120905
EP2763470 B1	20171108	EP20120835413	20120905
JP2013077926 A2	20130425	JP20110215784	20110930
JP5813444 B2	20151117	JP20110215784	20110930
US2014226551 AA	20140814	US20120348270	20120905
US9516650 BB	20161206	US20120348270	20120905
WO13047129 A1	20130404	WO2012JP72614	20120905

Priority:

JP20110215784 20110930 EP20120835413 20120905 WO2012JP72614 20120905

Probable Assignee: SHARP KK

Assignee(s): (std): IMAMURA KIMIHIKO ; KATO YASUYUKI ; NAKASHIMA DAIICHIRO ; NOGAMI TOSHIZO ; OUCHI WATARU ; SHARP KK ; UEMURA KATSUNARI ; SUZUKI SHOICHI ; SHIMEZAWA KAZUYUKI

Assignee(s): SHARP KABUSHIKI KAISHA ; SHARP CORP ; SHARP KABUSHIK KAISHA

Inventor(s): (std): OUCHI WATARU ; KATO YASUYUKI ; NOGAMI TOSHIZO ; NAKASHIMA DAIICHIRO ; SUZUKI SHOICHI ; UEMURA KATSUNARI ; SHIMEZAWA KAZUYUKI ; IMAMURA KIMIHIKO ; SHISAWA TOSHIYUKI ; NAKAJIMA TAIICHIRO ; KAMIMURA KATSUNARI ; NOGAMI TOMOZO

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; KEATING AND BENNETT LLP; FUKUCHI TAKEO

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 KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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

7) Family number: 63195786 (JP2016139176A)

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Title: IMAGE PROCESSING DEVICE, IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND IMAGE PROCESSING PROGRAM THEREFOR

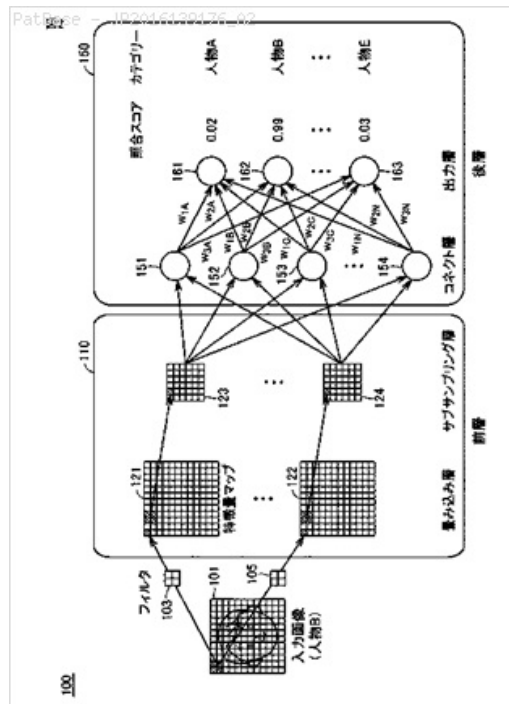
Abstract: PROBLEM TO BE SOLVED: To provide an image processing device capable of making a learning time for a related multi-layered neural network in update of a registered category shorter than before. SOLUTION: A neural network 100 includes: a pre-layer 110 which performs a process of outputting an output value to a processing unit of a next-stage layer on the basis of a result obtained by making different spatial filters 103, 105 operate on an input image 101, and finally generating a plurality of feature quantities respectively; and a post-layer which performs a process of outputting the output value to the processing unit of the next-stage layer on the basis of a result obtained by making respective different weight coefficients w-won the plurality of feature quantities, and then finally classifying the input image 101 into one of a plurality of categories. When a category is changed, the image processing device corrects not values of filters 103, 105 of the pre-layer 110, but weight coefficients w-wof the post-layer 150. SELECTED DRAWING: Figure 2

Classifications:

International (IPC 8-9): G06T1/40 G06T7/00 (Advanced/Invention)

JP F-Term: 5B057 5B057/CA08 5B057/CA12 5B057/CA16 5B057/CE05 5B057/CE06 5B057/CH11 5B057/CH16 5B057/CH18 5B057/DA12 5B057/DB02 5B057/DB09 5B057/DC33 5B057/DC36 5L096 5L096/AA06 5L096/GA51 5L096/GA55 5L096/HA09 5L096/JA11 5L096/JA22

JP F-Index: G06T1/40 G06T7/00/350/C



Family:

Publication number	Publication date	Application number	Application date
JP2016139176 A2	20160804	JP20150012157	20150126

Priority:

JP20150012157 20150126

Probable Assignee:

SHARP KK

Assignee(s): (std):

SHARP KK

Assignee(s):

SHARP CORP

Inventor(s): (std):

IMAI KATSUKI

Agent(s):

FUKAMI PATENT OFFICE PC