

**Search query (3):** [SP]: terminal apparatus, base station apparatus, and communication method a terminal apparatus 1 and a base station apparatus 3 efficiently continue to communicate with each other. the terminal apparatus 1 is a terminal apparatus to be handed over from a source cell to a target cell, and the terminal apparatus is handed over from the source cell to the target cell, and includes a receiver 13 configured to receive a higher layer information mobilitycontrolinfo including a first uplink grant and a subframe allocation information and a transmitter 13 configured to perform a transmission based on the first uplink grant in one of a plurality of subframes indicated by the subframe allocation information, wherein the subframe allocation information indicates at least one of the plurality of subframes associated with a set having the same number across radio frames.  
**Results:** 3

**1) Family number: 47904324 (US2012093128A)**

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**Title:** HANDOVER METHOD, USER EQUIPMENT, AND NETWORK SIDE DEVICE  
**Priority:** CN200910148040 20090623 CN200910148040 20100623 EP20100791541 20100623  
 WO2010CN074288 20100623

| Family: | Publication number | Publication date | Application number | Application date |
|---------|--------------------|------------------|--------------------|------------------|
|         | BRPI1012261 A2     | 20160405         | BR2010PI12261      | 20100623         |
|         | CN101932052 A      | 20101229         | CN200910148040     | 20090623         |
|         | CN101932052 B      | 20160824         | CN200910148040     | 20090623         |
|         | DE602010019458 D1  | 20141120         | DE201060019458T    | 20100623         |
|         | EP2448329 A1       | 20120502         | EP20100791541      | 20100623         |
|         | EP2448329 A4       | 20120808         | EP20100791541      | 20100623         |
|         | EP2448329 B1       | 20141008         | EP20100791541      | 20100623         |
|         | JP2012531141 T2    | 20121206         | JP20120516498T     | 20100623         |
|         | JP5373968 B2       | 20131218         | JP20120516498T     | 20100623         |
|         | RU2012102000 A     | 20130827         | RU20120102000      | 20100623         |
|         | RU2496265 C2       | 20131020         | RU20120102000      | 20100623         |
|         | US2012093128 AA    | 20120419         | US20110336760      | 20111223         |
|         | US9008040 BB       | 20150414         | US20110336760      | 20111223         |
|         | WO10149035 A1      | 20101229         | WO2010CN74288      | 20100623         |

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**Agent(s):** ISARPATENT; BRINKS GILSON AND LIONE  
**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 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 NZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU 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  
**International class (IPC 8-9):** H04L1/16 H04L1/18 H04W36/00 H04W36/08 H04W36/14 H04W36/24 H04W36/30 H04W36/34 H04W4/00 H04W56/00 H04W72/12 H04W74/08 H04W88/02 H04W88/08 (Advanced/Invention); H04W72/12 H04W88/02 H04W88/08 (Advanced/Non-invention)  
**CPC:** H04W36/0011 H04W36/08 H04W36/14 H04W36/24 H04W36/30 H04W36/0077 H04W72/1289 H04W88/02 H04W88/08  
**European class:** H04W36/00P6T T04W72/12F4 T04W88/02 T04W88/08  
**US class:** 370/331 370/331P 370/332 370/333 455/436 455/437 455/438 455/439 455/440 455/441 455/442 455/443 455/444

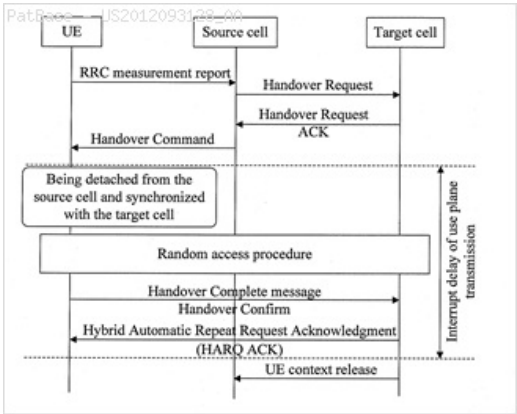
[Classification Explorer](#)

**Cited documents:** WO08098482 A1, WO08084395 A1, WO08084395, WO07149013 A1, US6438117 BA, US2010232382 AA, US2010189007 AA, US2009286541 AA, US2008268850 AA, US2008267131 AA, US2008182579 AA, US2008182579, US0182579, RU2007143485 A, EP2129147 A1, CN101370267 A, CN101247647 A, CN101198155 A, CN101064943 A,

**Forward Citations:** WO19029732, WO18093939, WO17159352, WO17069570, WO17050010, WO17049630, WO17028897, WO17012291, WO16119876, WO16065580, WO15130574, WO15118094, WO14183588, WO13182152, WO13004127, US9955495, US9949193, US9942808, US9894640, US9888499, US9872280, US9867137, US9860807, US9854484, US9848445, US9848362, US9844006, US9843982, US9832689, US9820283, US9801211, US9769772, US9763203, US9743431, US9743366, US9736795, US9736722, US9717061, US9706454, US9681399, US9661661, US9648643, US9642098, US9615339, US9554397, US9386600, US9386483, US9301317, US9295077, US9220077, US9131435, US9119125, US9113387, US8724617, US2016255520, US2016174236, US2015319774, US2015312825, US2015250004, US2015230134, US2015223124, US2015038148, US2014308956, US2014177560, US2014016617, US2013343345, US10397957, US10397839, US10383068, US10375655, US10368322, US10327195, US10278134, US10219288, US10187829, US10154500, US10136367, US10129798, US10123288, US10085288, US10064191, US10051491, US10039131, US10015707, RU2634704, KR20150068985, KR101803019, KR101689490, JP5960781, JP2017139799, JP2016524415, JP2016523479, JP2015073320, JP2014505422, EP3474593, EP3461178, EP3029986, EP2911449, EP2911449, EP2903328, CN107295658, CN107135674, CN107079367, CN107079367, CN106664541, CN106559737, CN106060937, CN106060937, CN105684512, CN105684512, CN105474590, CN105474590, CN105474589, CN105474589, CN105453645, CN104737584, CN104737584, CN104202779, CN103945471, CN103945471, CN102231643,

**Abstract:**  
 Embodiments of the present invention disclose a handover method, User Equipment (UE), and a network side device, which can shorten a handover delay of a control plane and an interrupt delay of user plane data. A handover method includes: obtaining, by a UE, a Time Advance (TA) of a target cell before a handover; and obtaining an Uplink Grant (UL Grant) sent by the target cell;

and then sending a Handover Complete message to the target cell with the TA on a resource that is corresponding to the UL Grant.



2) Family number: 62187415 (JP2016053474A) © PatBase

**Title:** METHOD FOR EVALUATING MECHANICAL PROPERTY OF RUBBER/CORD COMPOSITE

**Priority:** JP20140178358 20140902

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| JP2016053474 A2    | 20160414         | JP20140178358      | 20140902         |
| JP6353321 B2       | 20180704         | JP20140178358      | 20140902         |

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**Assignee(s):** SUMITOMO RUBBER IND LTD

**Inventor(s):(std):** YAMASHITA KENICHI ; SHIRAISHI MASAKI ; SAITO KAZUHIKO ; NAITO MASATO ; TOKUYAMA TAKASHI

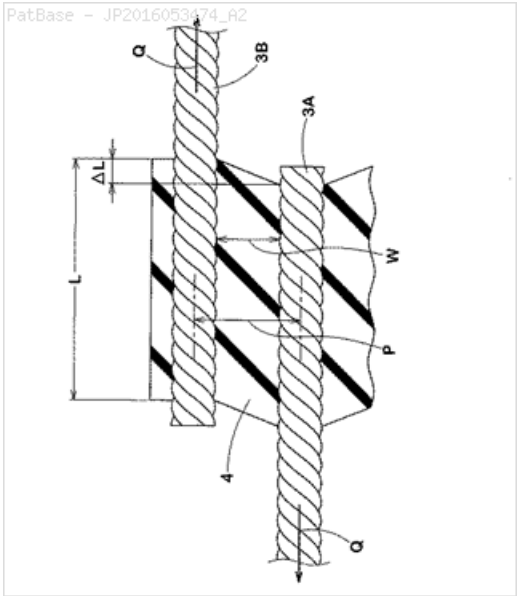
**International class (IPC 8-9):** G01M17/02 G01N3/24 (Advanced/Invention)

[Classification Explorer](#)

**Cited documents:** JP8304250 A2, JP8304250, JP58209603 A2, JP58209603, JP2012185042 A2, JP2012185042, JP2011225057 A2, JP2011225057, JP2011136670 A2, JP2011136670, JP2008281429 A2, JP2008281429, JP2000304666 A2, JP2000304666,

**Forward Citations:** WO18142691, EP3432643,

**Abstract:**  
PROBLEM TO BE SOLVED: To easily evaluate shear rigidity in consideration of interface rigidity between metal cord and rubber bonded on the surface thereof.SOLUTION: A method for evaluating mechanical properties of a rubber/cord composite comprises; the tensile test step of measuring a strain gamma in a shear direction and a stress t in the shear direction between metal cords when using a sample piece of the rubber cord composite, a first metal cord is pulled on one side of a length direction, and a second metal cord adjacent to the first metal cord is pulled on the other side of the length direction; and the evaluation step of evaluating rigidity in the shear direction between the metal cords on the basis of the strain gamma and the stress t.SELECTED DRAWING: Figure 3



3) Family number: 67014908 (US2019124565A) © PatBase

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

Priority: JP20160053474 20160317 WO2017JP07850 20170228

| Family: | Publication number                                                                                 | Publication date | Application number | Application date |
|---------|----------------------------------------------------------------------------------------------------|------------------|--------------------|------------------|
|         |  CN108781395 A    | 20181109         | CN201780005405     | 20170228         |
|         |  CO20180009242 A2 | 20180920         | CO20180009242      | 20170228         |
|         |  EP3432643 A1     | 20190123         | EP20170766355      | 20170228         |
|         |  JP2019083358 A2  | 20190530         | JP20160053474      | 20160317         |
|         |  US2019124565 AA  | 20190425         | US20170082973      | 20170228         |
|         |  WO17159352 A1    | 20170921         | WO2017JP07850      | 20170228         |

Probable Assignee: SHARP KK

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Inventor(s):(std): LIU LIQING ; YOSHIMURA TOMOKI ; SUZUKI SHOICHI ; OHUCHI WATARU ; AIBA TATSUSHI ; HAYASHI TAKASHI ; OUCHI WATARU ; AIBA TATESHI

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; HARAKENZO WORLD PATENT AND TRADEMARK

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

International class (IPC 8-9): H04W24/10 H04W28/04 H04W28/18 H04W36/00 H04W36/08 H04W36/24 H04W36/38 H04W72/12 (Advanced/Invention)

CPC: H04L5/0044 H04L5/0053 H04L5/0055 H04W24/10 H04W36/0072 H04W72/14 H04L1/00 H04W36/08 H04W36/38

US class: 1/1

[Classification Explorer](#)

Cited documents: JP2016053474 A2, JP2012531141 T2,

Abstract:

A terminal apparatus **1** and a base station apparatus **3** efficiently continue to communicate with each other. The terminal apparatus **1** is a terminal apparatus to be handed over from a source cell to a target cell, and the terminal apparatus is handed over from the source cell to the target cell, and includes a receiver **13** configured to receive a higher layer information mobilityControlInfo including a first uplink grant and a subframe allocation information and a transmitter **13** configured to perform a transmission based on the first uplink grant in one of a plurality of subframes indicated by the subframe allocation information, wherein the subframe allocation information indicates at least one of the plurality of subframes associated with a set having the same number across radio frames.

