

**PATENT COOPERATION TREATY**

**TRANSLATION**

From the  
INTERNATIONAL SEARCHING AUTHORITY

**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)	<b>28.04.2015</b>
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Applicant's or agent's file reference <b>2014PF00203</b>	<b>FOR FURTHER ACTION</b> See paragraph 2 below
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International application No. <b>PCT/JP2015/056842</b>	International filing date (day/month/year) <b>09.03.2015</b>	Priority date (day/month/year) <b>14.03.2014</b>
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International Patent Classification (IPC) or both national classification and IPC  
**H04W48/04 (2009.01) i, H04W4/08 (2009.01) i, H04W8/18 (2009.01) i,  
H04W48/02 (2009.01) i, H04W84/18 (2009.01) i, H04W88/18 (2009.01) i**

Applicant  
**NTT DOCOMO, INC.**

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

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**Box No. I**      **Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of:
  - the international application in the language in which it was filed
  - a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
  - a. (means)
    - on paper
    - in electronic form
  - b. (time)
    - in the international application as filed
    - together with the international application in electronic form
    - subsequently to this Authority for the purposes of search
4.  In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

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<b>Box No. V</b>	<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>
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1. Statement			
Novelty (N)	Claims	1-6	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	1-6	NO
Industrial applicability (IA)	Claims	1-6	YES
	Claims	_____	NO

2. Citations and explanations:	
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Document 1: JP 2010-93508 A (NTT DOCOMO INC.) 22 April 2010, paragraphs [0021]-[0027], [0029]-[0041], [0048]-[0054], fig. 10 and 12 (Family: none)

Document 2: JP 2006-345580 A (NTT DOCOMO INC.) 21 December 2006, paragraph [0043] (Family: none)

Document 3: Sierra Wireless, 23.888 MTC access control by RAN clean up[online], 3GPP TSG-SA WG2#80 S2-103759, Retrieved from the Internet <URL: [http://www.3gpp.org/ftp/tsg\\_sa/WG2\\_Arch/TSG\\_S2\\_80\\_Brunstad/Docs/S2-103759.zip](http://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSG_S2_80_Brunstad/Docs/S2-103759.zip)>, 03 September 2010, page 2

·Claims 1, 2, 5, and 6

The invention as in claims 1, 2, 5, and 6 does not involve an inventive step in the light of document 1 cited in the ISR.

Document 1 does not indicate that "if a communication request is received from the aforementioned

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user device, then the question of whether or not the group to which the aforementioned user device belongs is subject to control is determined on the basis of the aforementioned group identification information and group identification information about control subjects designated from an operation system".

However, document 1 (paragraph [0041]) indicates that "in the use restriction information 801, (...) two incoming/outgoing call prohibition times (...) are associated with the mobile telephone 2 carried by a student belonging to a class identified with the class ID '302'. (...) The use restriction information having been thus set is registered from the Web server 14 (...) into an HLR 71 (described later)". Document 1 (paragraph [0049]) also indicates that "the HLR 71 is a database that stores user information about all mobile telephones 2 within an in-zone area where the service control station 7 has jurisdiction, (...) as well as the use restriction information, which indicates use restriction service content for the mobile telephones 2". Thus, document 1 indicates that use restriction information having a class ID (corresponding to the "group identification information" of the present application) is registered in the HLR (corresponding to the "user information management device" of the present application) from a Web server (corresponding to the "operation system" of the present application).

In consideration also of the fact that document 1 (paragraph [0051]) indicates that "if there is an outgoing call request from a mobile telephone 2 within the in-zone area, (...) the service control station 7 performs communication regulation processing for the

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mobile telephone 2 on the basis of the use restriction information stored in the HLR 71", the service control station (corresponding to the "regulation control device" of the present application) of document 1 is one that performs communication regulation processing on the basis of use restriction information that is set from the HLR. Therefore, it would be easy for a person skilled in the art to conceive of the aforementioned configuration where "if a communication request is received from the aforementioned user device, then the question of whether or not the group to which the user device belongs is subject to control is determined on the basis of the aforementioned group identification information and group identification information about control subjects designated from an operation system".

·Claim 3

The invention as in claim 3 does not involve an inventive step in the light of document 1 cited in the ISR.

In consideration of the fact that document 1 (paragraph [0041]) indicates that "the use restriction information having thus been set is passed on to the service control station 7 from the Web server 14, and registered in the HLR 71 (described later) by the service control station 7", document 1 is considered to suggest that the service control station 7 is provided with a "user information storage unit for storing group identification information and user identification information in association with one another".

Accordingly, it would be easy for a person skilled in the art to conceive of using this configuration.

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·Claim 4

The invention as in claim 4 does not involve an inventive step in the light of documents 1 and 2 cited in the ISR.

Document 2 (paragraph [0043]) indicates that "fig. 15 illustrates the principal functional configuration of the call connection service control device 20. If an outgoing call request containing group identification information (group ID) for identifying a group is received from the caller's communication device 70, then the group member acquisition unit 21, illustrated in fig. 15, (...)". Document 1 and document 2 share the function of performing connection control on mobile communication terminals belonging to the same group.

Consequently, it would be easy for a person skilled in the art to conceive of configuring the subscriber exchanger (corresponding to the "wireless access control device" of the present application) disclosed in document 1 so that a connection request received from a user device is made to contain the group identification information disclosed in document 2.