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DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) **Title:** EFFICIENT COMMUNICATION OF NETWORK IDENTIFIERS

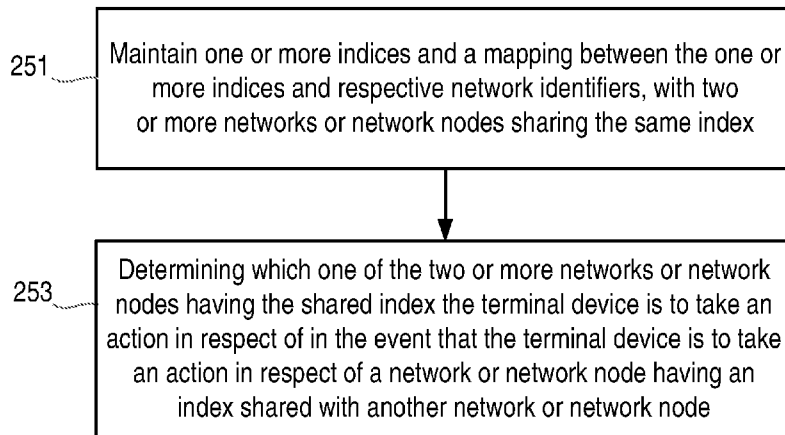


Figure 10

(57) **Abstract:** There is provided a method of operating a terminal device in a first network, the method comprising maintaining (251) one or more indices and a mapping between the one or more indices and respective network identifiers, each network identifier identifying a network and/or a network node, wherein two or more networks and/or network nodes share the same index; and in the event that the terminal device is to take an action in respect of a network and/or network node having an index shared with another network and/or network node, the method further comprises the step of determining (253) which one of the two or more networks and/or network nodes having the shared index the terminal device is to take the action in respect of. Methods of operating a node and network nodes are also provided.



INTERNATIONAL SEARCH REPORT

International application No
PCT/SE2015/051218

A. CLASSIFICATION OF SUBJECT MATTER
 INV. H04W48/18
 ADD. H04W88/06 H04W92/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 H04W

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/105380 A1 (ATTAR RASHID AHMED AKBAR [US] ET AL) 29 April 2010 (2010-04-29) paragraph [0030] - paragraph [0045] figures 1,3,6,7	1-28,39
A	EP 1 885 141 B1 (RESEARCH IN MOTION LTD [CA]) 16 May 2012 (2012-05-16) paragraph [0031] - paragraph [0033] paragraph [0043] - paragraph [0044] figures 3,7 claims 1,2,5,6,15	1-28,39
A	US 2013/163560 A1 (DIACHINA JOHN WALTER [US] ET AL) 27 June 2013 (2013-06-27) paragraph [0010] - paragraph [0011] paragraph [0014] paragraph [0028] - paragraph [0030]	29-38
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search 17 August 2016	Date of mailing of the international search report 20/09/2016
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Schorgg, Alfred

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2015/051218

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No
PCT/SE2015/051218

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HUAWEI: "Clarify the relation between SPID, RFSP and HRL", 3GPP DRAFT; R3-083095, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Prague, Czech Republic; 20081105, 5 November 2008 (2008-11-05), XP050324336, [retrieved on 2008-11-05] *chapter 2 "Discussion"* -----</p>	29-38

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/SE2015/051218

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 2010105380	A1	29-04-2010	NONE	

EP 1885141	B1	16-05-2012	CN 101146362 A	19-03-2008
			CN 102547925 A	04-07-2012
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			CN 104115524 A	22-10-2014
			EP 2795958 A1	29-10-2014
			KR 20140104494 A	28-08-2014
			US 2013163560 A1	27-06-2013
			WO 2013093748 A1	27-06-2013

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-28, 39

The first invention is related to a method of operating a terminal device, a terminal device, a method of operating a node in a first network and a corresponding node in a first network thereby maintaining a mapping between one or more indices and respective network identifiers.

2. claims: 29-38

The second invention is related to methods of operating a network node in a first network and corresponding network nodes determining a mapping between one or more indices and respective network identifiers, wherein different mappings are determined for different devices and/or network subscribers.
