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(71) Applicant: INTERDIGITAL PATENT HOLDINGS, INC. [US/US]; 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809 (US).

(72) **Inventors:** **WANG, Chonggang**; 9 Carlyle Court, Princeton, New Jersey 08540 (US). **LU, Guang**; 17 Coolbrooke Street, Dollard-des-Ormeaux, Montreal, QC H9B 1J4 (CA). **KUMAR, Rohit**; 1445 Rue du Fort, Apartment 403, Montreal, Québec H3C 2C3 (CA). **STARSINIC, Michael F.**; 92 Laurel Circle, Newtown, Pennsylvania 18940 (US). **SEED, Dale N.**; 229 N. 36th Street, Allentown, Pennsylvania 18104 (US). **DONG, Lijun**; 127 7th Street, Bridgeport, Pennsylvania 19405 (US). **LY, Quang**; 115 Sterling Drive, North Wales, Pennsylvania 19454 (US). **FLYNN IV, William R.**; 451 Mayberry Road, Schwenksville, Pennsylvania 19473 (US). **PODIAS, Nicholas J.**; 164 87th Street, Brooklyn, New York 11209 (US). **LI,**

Qing; 25 Hawthorne Drive, Princeton Junction, New Jersey 08550 (US). **RUSSELL, JR., Paul L.**; 8 Michael Way, Pennington, New Jersey 08534 (US).

(74) **Agent: HWANG, Yong Beom**; Volpe and Koenig, P.C., United Plaza, 30 S. 17th Street, Philadelphia, Pennsylvania 19103 (US).

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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR SUPPORTING MACHINE-TO-MACHINE COMMUNICATIONS

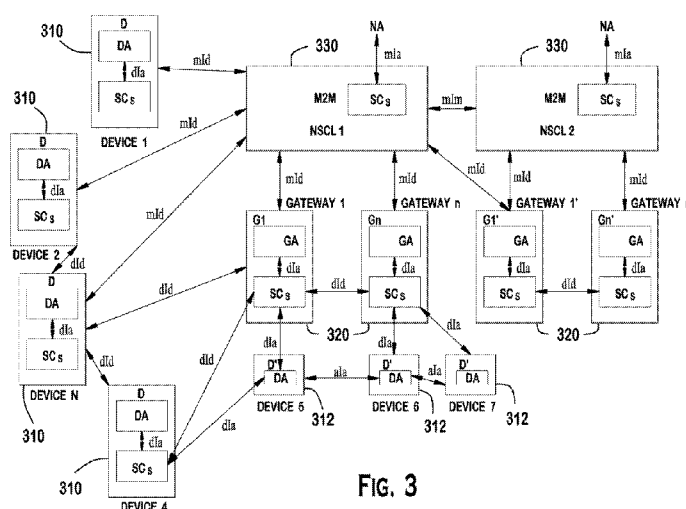


FIG. 3

(57) Abstract: A method and apparatus for distributed services and data in a machine-to-machine (M2M) communication network are disclosed. A network server, an M2M gateway, and M2M devices include an M2M service capability layer for supporting M2M service capabilities, respectively. Reference points may be defined for interactions between network service capability layers, between gateway service capability layers, between a gateway service capability layer and a device service capability layer of an M2M device, between M2M device applications, and/or between a network, gateway, or device service capability layer and an M2M application. The network server may be split into a control server and a data server at a service capability layer to provide service capabilities for control functions and service capabilities for data functions, respectively. The data server may be configured to interact with another data server to push or pull data or resources either directly or indirectly via the control server.

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

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, COMPENDEX, INSPEC, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2011/112683 A1 (INTERDIGITAL PATENT HOLDINGS [US]; PINHEIRO ANA LUCIA [US]; DIGIROLAMO) 15 September 2011 (2011-09-15) abstract paragraph [0001] - paragraph [0208] figures 1-29	1-20
X	INTERDIGITAL COMMUNICATIONS ET AL: "M2M SCL Discovery Procedures", INTERNET CITATION, 7 March 2011 (2011-03-07), pages 1-9, XP002677108, Retrieved from the Internet: URL:http://docbox.etsi.org/M2M/[retrieved on 2012-06-01] the whole document paragraph [0001] - paragraph [0208] figures 1-29 ----- -/-	1-20

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"&" document member of the same patent family

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European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Körbler, Günther

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Etsi: "TR 102 966 V0.1.1 (2011-09) Machine to Machine Communications (M2M); Interworking between the M2M Architecture and M2M Area Network technologies"; , 16 September 2011 (2011-09-16), pages 1-19, XP055060833, ETSI Retrieved from the Internet: URL: http://docbox.etsi.org/M2M/M2M/05-CONT RIBUTIONS/2011/ [retrieved on 2013-04-23] abstract section 4 section 5 -----	1-20
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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