(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau





# (10) International Publication Number WO 2010/020947 A3

(43) International Publication Date 25 February 2010 (25.02.2010)

(51) International Patent Classification: *H04L 29/06* (2006.01) *H04L 12/18* (2006.01)

(21) International Application Number:

PCT/IB2009/053643

(22) International Filing Date:

18 August 2009 (18.08.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/195,557

2 1 August 2008 (21.08.2008)

US

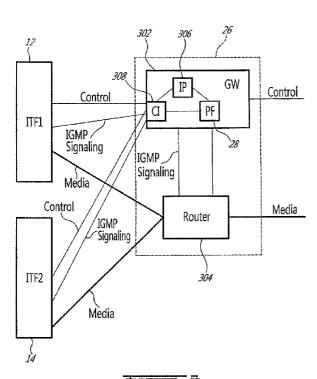
(71) Applicant (for all designated States except US): TELE-FONAKTIEBOLAGET LM ERICSSON (PUBL) [SE/SE]; S-164 83 Stockholm (SE).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): FOTI, George [CA/CA]; 163 Mozart, Dollard des Ormeaux, Quebec H9G 2Z8 (CA).

- (74) Agents: NICOLAESCU, Alex et al; 8400 Decarie Boulevard, Town Mount Royal, Quebec H4P 2N2 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,

[Continued on next page]

(54) Title: INTELLIGENT IMS GATEWAY FOR LEGACY DSLAMS



(57) Abstract: Systems and methods according to the present invention address this need and others by improving service within the telecommunications field for gateways. According to exemplary embodiments, a gateway stores policy information which it uses to determine whether access to a requested service is permissible. The gateway manages a single Internet Multimedia Subsystem (IMS) session capable of supporting multiple requests for service from different requesting sources.

## 

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ME, MR, NE, SN,  $\overrightarrow{TD}$ ,  $\overrightarrow{TG}$ ).

#### **Published:**

— with international search report (Art. 21(3))

before the expiration f the time limit for amending the claims m d (o be repubHshed in the event f receipt famendments (Rule 48.2(h))

(88) Date of publication of the international search report: 15 April 2010

#### INTERNATIONAL SEARCH REPORT

International application No PCT/IB2009/053643

	FICATION OF SUBJECT MATTER H04L29/06 H04L12/18				
	o International Patent Classification (IPC) or to both national class	sification and IPC			
	SEARCHED  Documentation searched (classification system followed by classification system)	cation symbols)			
H04L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,			
Documental	tion searched other than minimum documentation to the extent th	at such documents are included in the fields so	earched		
Electronic d	ata base consulted during the international search (name of data	base and, where practical, search terms used	d)		
EPO-In	ternal , INSPEC, WPI Data				
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No		
Х	US 2006/041688 Al (WRIGHT STEVE AL) 23 February 2006 (2006-02-2) the whole document	1-23			
Х	US 2007/047545 Al (BOU-DIAB BAS ET AL) 1 March 2007 (2007-03-01 the whole document	1,12,23			
A	WO 2007/141450 A (FRANCE TELECO) CRASSOUS MAGALI [FR]; SAID MIKH 13 December 2007 (2007-12-13) the whole document	1-23			
Further documents are listed in the continuation of Box C X See patent family annex					
* Special categories of cited documents  'T' later document published after the international filing date					
Tiling date  "L* document which may throw doubts on pnoπty claim(s) or		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			
citation 'O' document other	is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	1Y" 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			
later th	han the priority date claimed	_ <del></del>	'&" document member of the same patent family		
	actual completion of the international search	Date of mailing of the international sea	ircn report		
<b>}</b>	28 January 2010	04/02/2010			
Name and I	mailing address of the ISA/  European Patent Office, P B 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel (+31-70) 340-2040,  Eav. (+31-70) 340-3016	Authorized officer  Megalou-Nash, M			

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2009/053643

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
US 2006041688	Al	23-02-2006	NON	E		
US 2007047545	Al	01-03-2007	CN EP WO	1925412 1932281 2007031880	A2	07-03-2007 18-06-2008 22-03-2007
WO 2007141450	A	13-12-2007	CN EP FR JP KR US	101467419 2025181 2902268 2009540643 20090018673 2009119699	Al Al T A	24-06-2009 18-02-2009 14-12-2007 19-11-2009 20-02-2009 07-05-2009