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- (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, QA, RO, RS, RU, RW, 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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Declarations under Rule 4.17:

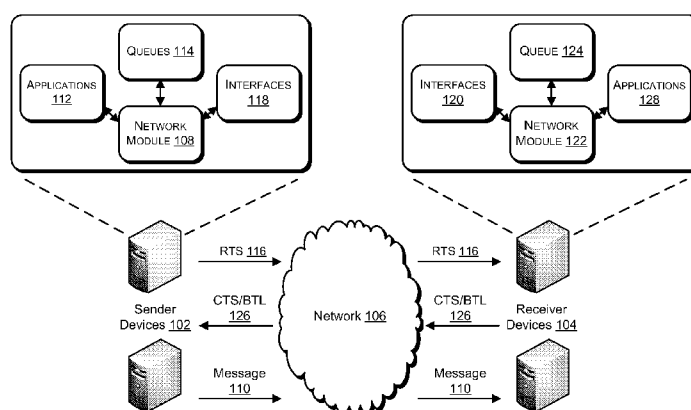
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

3 January 2013

(54) Title: EFFECTIVE CIRCUITS IN PACKET-SWITCHED NETWORKS**FIG. 1**

(57) **Abstract:** The creation of an effective circuit between a sender device and a receiver device over the packet-switched network is described herein. To establish the effective circuit, the sender device sends a request to the receiver device through the packet-switched network. The request is associated with a bandwidth reservation from the receiver device for reception of a message from the sender device. The receiver device receives multiple requests from multiple sender devices and reserves bandwidth for at least one of the sender devices. The receiver device then sends a response to the at least one sender device providing clearance to send the message to the receiver device using the reserved bandwidth, the request and response establishing the effective circuit. The receiver device may also decline the requests of the other sender devices, causing the other sender devices to send other requests to other receiver devices.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/035700**A. CLASSIFICATION OF SUBJECT MATTER****H04L 12/56(2006.01)i, H04L 29/12(2006.01)i**

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)

H04L 12/56; H04W 48/02; H04J 316; H04Q 7/20; H04J 3/00; H04B 7208

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: bandwidth, request to send (RTS), clear to send (CTS), reservation, and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2010-0008347 A1 (QIN XIANGPING et al.) 14 January 2010 See paragraph [0043], claim 2 and figure 4.	1,3,4,10 2,5-9
A	US 2010-0008230 A1 (KHANDEKAR AAMOD D. et al.) 14 January 2010 See paragraph [0084], claim 3 and figure 7.	1-10
A	US 6850489 B1 (OMI SHINICHIRO et al.) 01 February 2005 See claim 1 and figures 1-3.	1-10
A	US 6577613 B1 (RAMANATHAN; SUBRAMANIAN) 10 June 2003 See column 2 line 58-column 3 line 39, claim 1 and figures 1-3.	1-10

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of 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

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"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

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"&" document member of the same patent family

Date of the actual completion of the international search

23 OCTOBER 2012 (23.10.2012)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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