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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

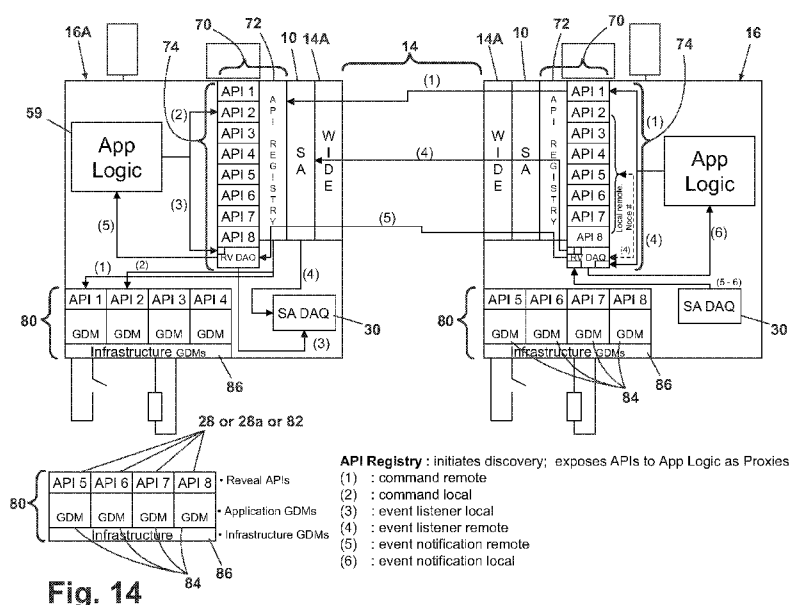
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, 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, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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- (88) **Date of publication of the international search report:**
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(54) **Title:** APPLIANCE WITH EMBEDDED VIRTUAL ROUTER**Fig. 14**

(57) **Abstract:** An appliance (12, 12', 1000, 1006, 1102, 2002) configured to perform a physical cycle of operation on an article including at least two software components (10, 16B, 30, 48, 50, 52, 59, 72, 80, 84, 86) collaborating with each other by a method of access or exposure to each other, characterized by an embedded virtual router (70) that encapsulates the method. The collaboration is uniform and identical whether the collaboration is over a network (14, 200, 202, 402, 602, 606, 608, 612, 1030, 1050, 1052, 1164, 2004, 2008, 2012, 2100, 2102) or sharing a runtime environment.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/086055**A. CLASSIFICATION OF SUBJECT MATTER*****H04L 12/16(2006.01)i, H04L 12/28(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)

IPC: H04L, G05B, G06F

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 since 1975

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

WPI, eKIPASS(KIPO internal) & keywords: virtual router, software component, embedded

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007-156265 A1 (RICHARD A. MCCOY et al.) 5 July 2007 See figs. 1, 2, 14; paragraphs [73], [465]-[478].	1-13
A	US 2005-172282 A1 (MICHAEL SHENFIELD et al.) 4 August 2005 See abstract; paragraphs [7], [8], [21], [39], [48], [66].	1, 11
A	US 6289396 B1 (JAMES A. KELLER et al.) 11 September 2001 See abstract; col. 3 lines 52 - 67	1, 11



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007-0156265 A1	05.07.2007	None	
US 2005-172282 A1	04.08.2005	CA 2495052 A1 CN 1670694 A EP 1560117 A1 EP 1845446 A2 SG 113609 A1 SG 135199 A1	30.07.2005 21.09.2005 03.08.2005 17.10.2007 29.08.2005 28.09.2007
US 6289396 B1	11.09.2001	AT 352067 T EP 0862759 B1 JP 2000-500601 KR 10-1999-0071479 WO 97-19402 A1	15.02.2007 17.01.2007 18.01.2000 27.09.1999 29.05.1997