



- (51) International Patent Classification: *H04W 72/00* (2009.01)
- (21) International Application Number: PCT/US2012/064857
- (22) International Filing Date: 13 November 2012 (13.11.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 13/296,064 14 November 2011 (14.11.2011) US
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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, BN, 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, PA, 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.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,

[Continued on next page]

(54) Title: SELECTIVE IP ADDRESS ALLOCATION FOR PROBES THAT DO NOT HAVE ASSIGNED IP ADDRESSES

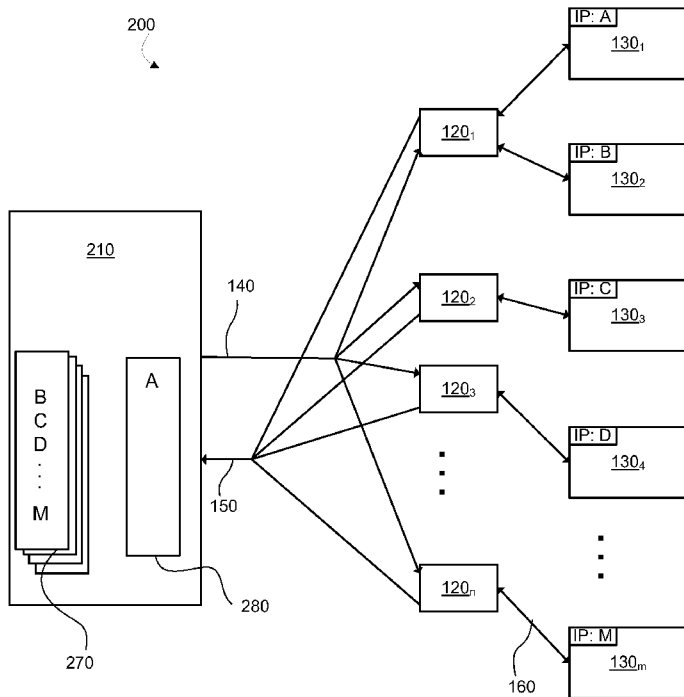


FIG. 2

(57) Abstract: Systems and methods for managing communication in an IP network between a server and a probe that does not maintain an IP address by selectively restricting which IP addresses that are identified as active in the network may be borrowed for the probes. Restriction of IP addresses may include a black list to exclude specific IP addresses, a white list from which IP addresses can be drawn or both. This permits control over which IP addresses may be borrowed by probes, reducing false alarms, alerts or other network concerns caused by unexpected IP traffic on a particular IP address in the network.

WO 2013/074537 A3

MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, (88) Date of publication of the international search report:
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, 2 June 2016
GW, ML, MR, NE, SN, TD, TG).

Published:

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 12/64857

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - H04W 72/00 (2012.01) USPC - 455/452.1 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(8): H04W 72/00 (2012.01) USPC: 455/452.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 455/403, 410, 421, 422.1, 450; 709/226; 370/328, 338, 401, 466; 715/736, 739, 1, 11; 726/12, 14, 23; 713/154, 168; 709/203, 226, 227, 228, 229, 238 (search term limited, see search terms) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Patbase, Google Patents and Scholar, Search Terms: packet, probe, whitelist, blacklist, ip address, active, in-use, occupied, taken, allocated, unaddressed, no, lacking, network, element, list, assign, use, using, borrow, take, intercept, encapsulation, downstream, hopping																
C. DOCUMENTS CONSIDERED TO BE RELEVANT																
<table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 2007/0147258 A1 (MOTTISHAW et al) 28 June 2007 (28.06.2007) entire document, especially Abstract; para [0019], [0025], [0036], [0042], [0051]</td> <td>1 - 16</td> </tr> <tr> <td>Y</td> <td>US 7,088,727 B1 (SHORT et al) 08 August 2006 (08.08.2006) entire document, especially Abstract; col 13, ln 4 - 16; col 13, ln 17 - 27</td> <td>1 - 16</td> </tr> <tr> <td>Y</td> <td>US 2006/0080444 A1 (PEDEMORS et al) 13 April 2006 (13.04.2006) entire document, especially Abstract; para [0039], [0041], [0052]</td> <td>1 - 16</td> </tr> <tr> <td>A</td> <td>US 2008/0052758 A1 (BYRNES) 28 February 2008 (28.02.2008) entire document</td> <td>1 - 16</td> </tr> </tbody> </table>	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 2007/0147258 A1 (MOTTISHAW et al) 28 June 2007 (28.06.2007) entire document, especially Abstract; para [0019], [0025], [0036], [0042], [0051]	1 - 16	Y	US 7,088,727 B1 (SHORT et al) 08 August 2006 (08.08.2006) entire document, especially Abstract; col 13, ln 4 - 16; col 13, ln 17 - 27	1 - 16	Y	US 2006/0080444 A1 (PEDEMORS et al) 13 April 2006 (13.04.2006) entire document, especially Abstract; para [0039], [0041], [0052]	1 - 16	A	US 2008/0052758 A1 (BYRNES) 28 February 2008 (28.02.2008) entire document	1 - 16	<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>
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Date of the actual completion of the international search 12 January 2012 (12.01.2012)	Date of mailing of the international search report 01 FEB 2013															
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774															