



- (51) **International Patent Classification:**
G06F 15/173 (2006.01) *G06F 11/00* (2006.01)
- (21) **International Application Number:**
PCT/IB2012/050451
- (22) **International Filing Date:**
31 January 2012 (31.01.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
11155862.3 24 February 2011 (24.02.2011) EP
- (71) **Applicant (for all designated States except US):** **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (71) **Applicants (for MG only):** **IBM UNITED KINGDOM LIMITED** [GB/GB]; PO Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB). **IBM (CHINA) INVESTMENT COMPANY LIMITED** [CN/CN]; 25/F, Pangu Plaza, No.27, Central North 4th Ring Road, Chaoyang District, Beijing 100101 (CN).

- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **FRANKLIN, David, Richard** [GB/GB]; IBM United Kingdom Limited, M/P Dev, 76 Upper Ground, South Bank, London, Greater London SE1 9PZ (GB). **STEWART, Kristian, Jon** [GB/GB]; IBM United Kingdom Limited, 76 Upper Ground, South Bank, London, Greater London SE1 9PZ (GB). **DINGER, John** [US/US]; IBM Corporation, M/P 27703, 3901 South Miami Blvd, Durham, NC 27703-9135 (US). **LAKE, John, Michael** [US/US]; IBM Corporation, Dept. T81/Bldg. 503, PO Box 12195, 3039 Cornwallis Road, Research Triangle Park, NC 27709 (US).
- (74) **Agent:** **STRETTON, Peter**; IBM United Kingdom Limited, Intellectual Property Law Hursley Park, Winchester, Hampshire SO21 2JN (GB).
- (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,

[Continued on next page]

(54) Title: NETWORK EVENT MANAGEMENT

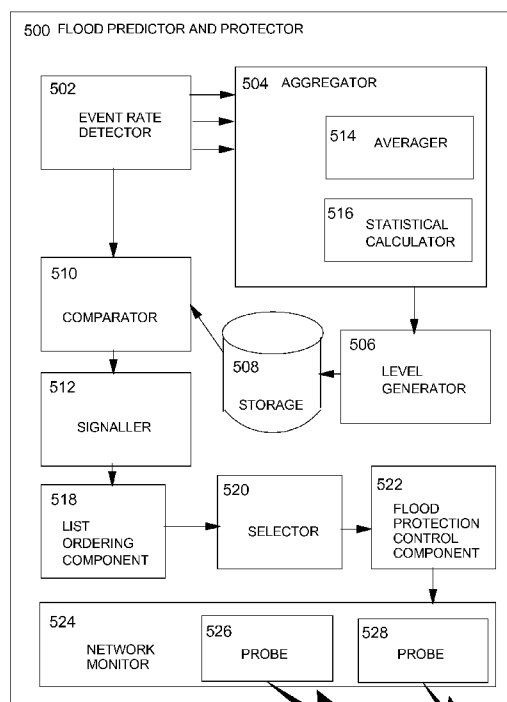


Figure 5

(57) **Abstract:** An apparatus for predicting a network event flood comprises an event rate detector for detecting rates of event emissions from one or more devices; an aggregator for producing an aggregate rate and an aggregate rate trend of the rates of event emissions from a plurality of the devices; a level generator for generating a plurality of levels comprising maximum acceptable event rate values of a plurality of the aggregate rate trends over plural time periods; a storage component for storing the plurality of levels; a comparator for comparing a current aggregate rate trend with at least a selected one of the levels; and a signaller for signalling a predicted event flood responsive to the comparator detecting that the current aggregate rate trend will exceed the at least a selected one of the levels at a first point in time.



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, MD,
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, MC, MK, MT, NL, NO, PL, PT, RO, RS,
SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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