



- (51) **International Patent Classification:**
G08G 1/01 (2006.01) *G06K 9/62* (2006.01)
- (21) **International Application Number:**
PCT/EP2012/073700
- (22) **International Filing Date:**
27 November 2012 (27.11.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
11191227.5 29 November 2011 (29.11.2011) EP
- (71) **Applicant: ATS GROUP (IP HOLDINGS) LIMITED;**
P.O. Box 958, Pasea Estate, Road Town, Tortola (VG).
- (72) **Inventor; and**
- (71) **Applicant : ZIEKOW, Holger** [DE/DE]; c/o AGT Group
(R&D) GmbH, Hilpertstr. 35, 64295 Darmstadt (DE).
- (74) **Agent: BÖRNER, Robert;** Murgitroyd & Company, Scot-
land House, 165-169 Scotland Street, Glasgow G5 8PL
(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, 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.

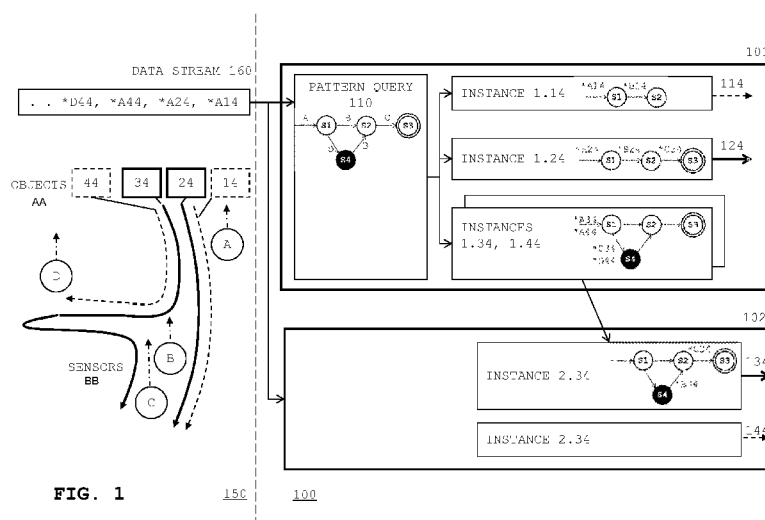
- (84) **Designated States** (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
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))
- 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:

27 March 2014

(54) Title: PROCESSING EVENT DATA STREAMS**FIG. 1**

150

100

(57) Abstract: A computer (100) recognizes an event pattern (ABC) for objects (14, 24, 34, 44) that belong to an event domain (150). The computer activates a pattern query (110) that corresponds to the event pattern (ABC) and that has at least one state (S4) with a distinctive transition probability to a final state. The probability is derived from object observations in the event domain (150). The computer continuously receives event representations (*A14, *A24, *A44, *D44,...) that are related to the objects (14, 24, 34, 44) and allocates the event representations to a first processing resource (101) to initiate instances (1.14, 1.24, 1.34, 1.44) of the query (110). It monitors the instances and, upon receiving event representations that cause the instances to reach the state (S4) with the distinct transition probability, it shifts the instances to a second processing resource (102).