



- (51) **International Patent Classification:**
G06F 11/36 (2006.01)
- (21) **International Application Number:**
PCT/IB2014/058600
- (22) **International Filing Date:**
28 January 2014 (28.01.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/777,524 26 February 2013 (26.02.2013) US
- (72) **Inventor; and**
- (71) **Applicant : BOLIGNANO, Dominique** [FR/FR]; 5 Avenue Mac-Mahon, F-75017 Paris (FR).
- (74) **Agent: NOVAGRAAF TECHNOLOGIES;** 122 Rue Edouard Vaillant, F-92593 Levallois Perret (FR).
- (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, IR, IS, JP, KE, KG, 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, SA, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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

(54) **Title:** METHOD FOR SECURING A PROGRAM

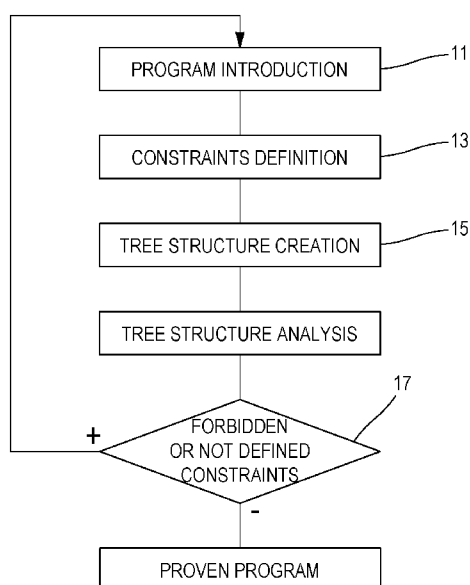


FIG. 2

(57) **Abstract:** A method for securing a first program, the first program comprising a finite number of program points and evolution rules associated to program points and defining the passage of a program point to another, comprising: • a definition of a plurality of exit cases and, when a second program is used in the definition of the first program, for each exit case, definition of a branching toward a specific program point of the first program or a declaration of branching impossibility; and • a definition of a set of properties to be proven, each associated with one of the constitutive elements of the first program, said set of properties comprising the branching impossibility as a particular property; • establishment of the formal proof of the set of properties.