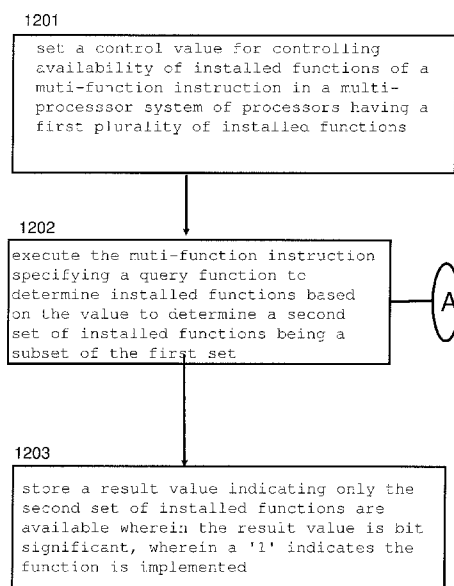




- (51) **International Patent Classification:**
G06F 9/455 (2006.01) *G06F 9/318* (2006.01)
G06F 9/30 (2006.01)
- (21) **International Application Number:**
PCT/EP2010/067046
- (22) **International Filing Date:**
8 November 2010 (08.11.2010)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
12/822,358 24 June 2010 (24.06.2010) US
- (71) **Applicant (for all designated States except US):** INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (71) **Applicant (for MG only):** IBM UNITED KINGDOM LIMITED [GB/GB]; PO Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** GREINER, Dan [US/US]; IBM Corporation, Mail Drop SVL/090/F374, 555 Bailey Avenue, Santa Teresa Lab, San Jose, CA 95141-1003 (US). OSISEK, Damian, Leo [US/US]; IBM Corporation, Mail Drop G28G/250-2, 1701 North Street, Endicott, NY 13760-5553 (US). SLEGEL, Timothy [US/US]; IBM Corporation, Mail Drop MS-P310, 2455 South Road, Poughkeepsie, NY 12601-5400 (US).
- (74) **Agent:** LITHERLAND, David, 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, RO, RS, RU, 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.

[Continued on next page]

(54) **Title:** FUNCTION VIRTUALIZATION FACILITY FOR FUNCTION QUERY OF A PROCESSOR



(57) **Abstract:** Selected installed function of a multi-function instruction is hidden such that even though a processor is capable of performing the hidden installed function, the availability of the hidden function is hidden such that responsive to the multi-function instruction querying the availability of functions, only functions not hidden are reported as installed.

FIG. 12



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, 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))*