



- (51) **International Patent Classification:**
G06F 9/445 (2018.01)
- (21) **International Application Number:**
PCT/IB2021/059161
- (22) **International Filing Date:**
06 October 2021 (06.10.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
17/070,227 14 October 2020 (14.10.2020) US
- (71) **Applicant:** **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, New York, 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:** **VALENTINE, Brian**; IBM Corporation, 1701 North Street, Building 256, Endicott, New York 13760-5553 (US). **EGGLESTON, John, Dale**; IBM Cor-

poration, 1701 North Street, Building 256, Endicott, New York 13760-5553 (US). **BOISVERT, Brent**; IBM Corporation, 1701 North Street, Building 256, Endicott, New York 13760-5553 (US). **ALLEN, Michael**; IBM Corporation, 1701 North Street, Building 256, Endicott, New York 13760-5553 (US). **LUCKS, Michael**; IBM Corporation, 2455 South Road, Poughkeepsie, New York 12601-5400 (US). **DREW, Brendon**; IBM Corporation, 2455 South Road, Poughkeepsie, New York 12601-5400 (US).

- (74) **Agent:** **LITHERLAND, David**; IBM United Kingdom Limited, Intellectual Property Law, Hursley Park, Hursley, 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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (54) **Title:** REMOTE SYSTEM UPDATE AND MONITORING

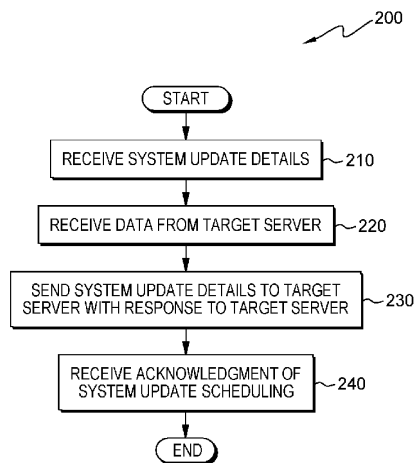


FIG. 2

(57) **Abstract:** A processor receives input data comprising: (i) a code level for an update, (ii) a scheduled time for the update; (iii) a target system for the update, and (iv) authorization data, wherein the authorization data: (i) allows for scheduling of the update and (ii) is provided via a channel external from a connection to the target system without an inbound connection. A processor receives a set of data from the target system. A processor, responsive to receiving the set of data from the target system, sends a response packet to the target system that includes the input data. A processor receives, at the scheduled time, a request to process the update. A processor, responsive to the request, sends code for processing the update corresponding to the code level for the update. A processor receives status messages corresponding to progress of the update.

[Continued on next page]

(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, ST, 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))