

(43) International Publication Date
23 December 2010 (23.12.2010)(10) International Publication Number
WO 2010/148059 A2(51) International Patent Classification:
G06F 21/20 (2006.01) **G06F 12/00** (2006.01)(21) International Application Number:
PCT/US2010/038776(22) International Filing Date:
16 June 2010 (16.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/486,738 17 June 2009 (17.06.2009) US(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).(72) Inventors: **SADOVSKY, Vladimir**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **OLARIG, Sompong Paul**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **LIONETTI, Chris**; c/o Microsoft Corporation, LCA - International Patents, OneMicrosoft Way, Redmond, Washington 98052-6399 (US). **HAMILTON, James Robert**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US).

(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.

(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, SE, SI, SK,

[Continued on next page]

(54) Title: REMOTE ACCESS CONTROL OF STORAGE DEVICES

(57) Abstract: An access control device can be communicably coupled to a storage device and can control access thereto. The access control device can comprise information, such as identities of authorized entities, to enable the access control device to independently determine whether to provide access to an associated storage device. Alternatively, the access control device can comprise information to establish a secure connection to an authorization computing device and the access control device can implement the decisions of the authorization computing device. The access control device can control access by instructing a storage device to execute specific firmware instructions to prevent meaningful responses to data storage-related requests. The access control device can also comprise storage-related cryptographic information utilized by the storage device to encrypt and decrypt data. In such a case, the access control device can control access by not releasing the storage-related cryptographic information to the storage device.

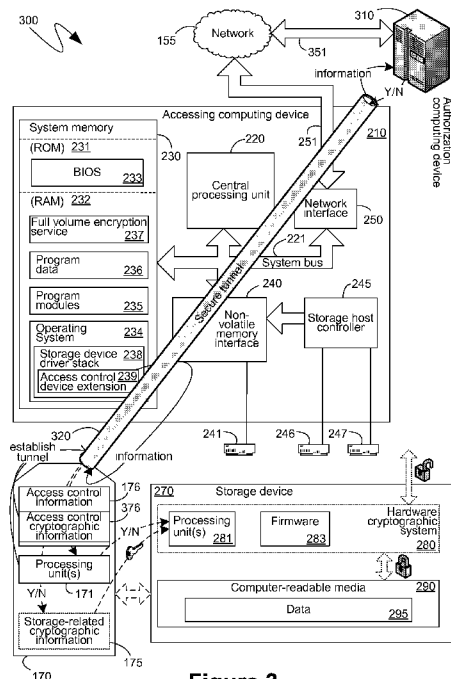


Figure 3



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*