

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 June 2007 (21.06.2007)

PCT

(10) International Publication Number
WO 2007/070451 A3

(51) International Patent Classification:
G06F 13/38 (2006.01)

(21) International Application Number:

PCT/US2006/047118

(22) International Filing Date:

8 December 2006 (08.12.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/748,769 9 December 2005 (09.12.2005) US
11/431,334 9 May 2006 (09.05.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

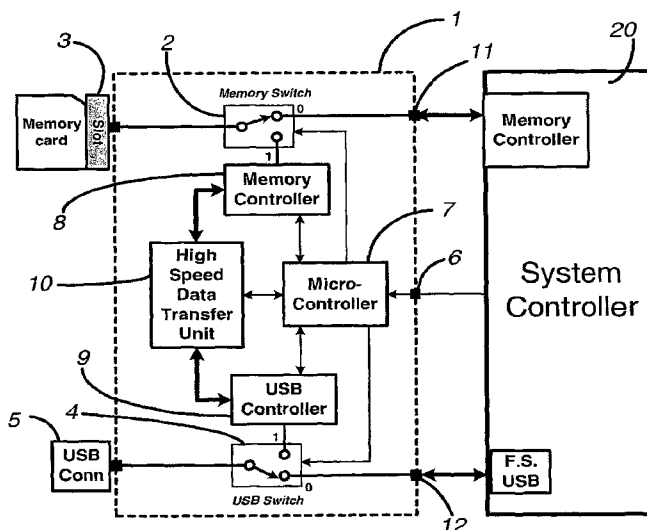
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR ADDING AN AUTONOMOUS CONTROLLER TO AN EXISTING ARCHITECTURE



(57) Abstract: Methods and apparatus for adding an autonomous controller to an existing architecture such as by way of example, portable devices such as cell phones, MP3 players, and digital cameras. A circuit interposed between the memory card and the system controller of the device is controllable to couple the memory card to the system controller, or to couple the memory card to a high speed I/O controller on the circuit. When the memory card is coupled to the high speed I/O controller on the circuit, the circuit provides signals to the system controller indicative of a memory card removal event. In systems having an I/O connection such as a USB connection, the circuit also disconnects that connection from the system controller, provides signals to the system control indicative of a USB disconnect and connects the I/O connection to the memory card through a high speed data transfer unit to provide a higher speed I/O capability. Various features and capabilities are disclosed.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**

14 February 2008