



- (51) **International Patent Classification:**  
*G06F 13/10* (2006.01) *G06K 9/00* (2006.01)
- (21) **International Application Number:**  
PCT/IB2014/066965
- (22) **International Filing Date:**  
16 December 2014 (16.12.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
RM2013A000728 31 December 2013 (31.12.2013) IT
- (71) **Applicant:** PRB S.R.L. [IT/IT]; Viale Sabotino, 19/2, I-20135 Milano (mi) (IT).
- (72) **Inventors:** FORLANI, Paolo; c/o PRB S.R.L., Viale Sabotino, 19/2, I-20135 Milano (mi) (IT). CARBONERA, Antonio; c/o PRB S.R.L., Viale Sabotino, 19/2, I-20135 Milano (mi) (IT). GARAVAGLIA, Roberto; c/o PRB S.R.L., Viale Sabotino, 19/2, I-20135 Milano (mi) (IT).
- (74) **Agents:** FIAMMENGHI, Eva et al.; Via delle Quattro Fontane, 31, I-00184 Roma (IT).

- (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, 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, 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))

- (54) **Title:** METHOD FOR EXCHANGING CONTROLS THROUGH A USB DISC AND RELATIVE DEVICES WHICH ALLOW THE IMPLEMENTATION THEREOF

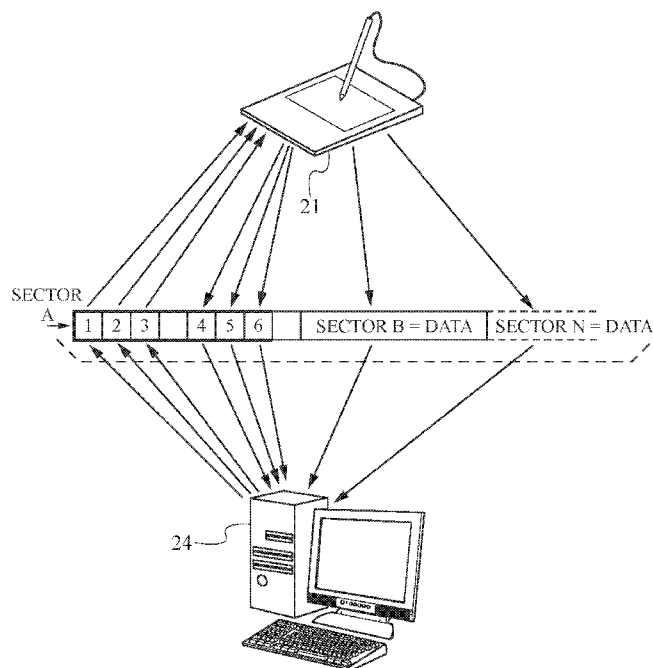


Fig. 3

(57) **Abstract:** Real time system for the two-directional memorisation and transmission of the controls and data for a processor in the I/O process, with external serial peripherals - such as graphic tablets and/or digitisers for the handwritten signature - which utilises an external medium for the storage of static data so as to constitute a transmission buffer capable of operating with the serial peripheral unit seen as a "USB drive" removable virtual disc. There is only used the file constituted as a linear sequential succession of data in sectors of constant dimensions, which can be shared between the serial peripheral unit (21) and the processor (24), which can both read and write it, in virtually coinciding instants. There is defined the transmission of asynchronous I/O with data blocks with contents in the order of the Kbyte and a storage area actually as large as desired, definitely larger than a data packet, used as a temporary storage for the passage of data awaiting to be transmitted.