

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 March 2003 (20.03.2003)

PCT

(10) International Publication Number
WO 03/023587 A2

(51) International Patent Classification⁷: **G06F 3/00**, A63F 13/06, H04L 12/64, 29/06, H04J 3/06, H04Q 7/22, H04L 12/28, G06K 7/00, H04N 7/26, G06F 13/38, H04N 5/44

Forrest Lane, San Diego, CA 92130 (US). **STEELE, Brian**; 1074 Iliad Way, Lafayette, CO 80026 (US).

(21) International Application Number: PCT/US02/28461

(74) Agent: **OGROD, Gregory, D.**; 5775 Morehouse Drive, San Diego, CA 92121 (US).

(22) International Filing Date:

6 September 2002 (06.09.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/317,858	6 September 2001 (06.09.2001)	US
10/020,520	14 December 2001 (14.12.2001)	US
60/356,892	13 February 2002 (13.02.2002)	US

(71) Applicant: **QUALCOMM, INCORPORATED** [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).

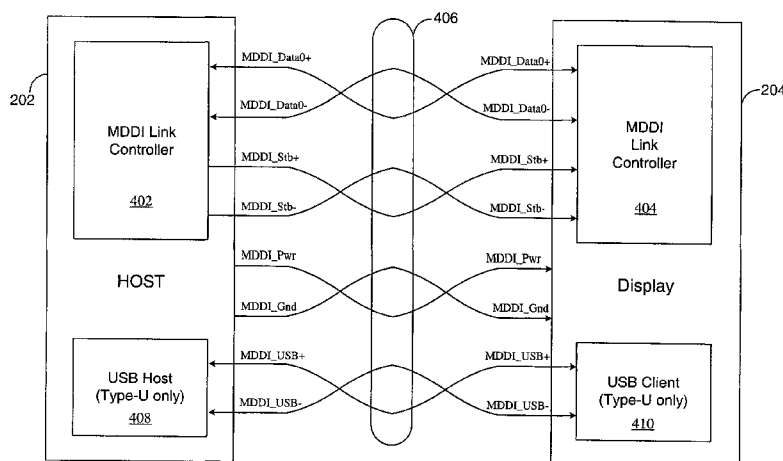
(72) Inventors: **ZOU, Qiuzhen**; 5791 Rutgers Road, La Jolla, CA 92037 (US). **WILEY, George, Alan**; 5740 Brittany

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: GENERATING AND IMPLEMENTING A COMMUNICATION PROTOCOL AND INTERFACE FOR HIGH DATA RATE SIGNAL TRANSFER



(57) Abstract: A data Interface for transferring digital data between a host and a client over a communication path using packet structures linked together to form a communication protocol for communicating a pre-selected set of digital control and presentation data. The signal protocol is used by link controllers configured to generate, transmit, and receive packets forming the communications protocol, and to form digital data into one or more types of data packets, with at least one residing in the host device and being coupled to the client through the communications path. The interface provides a cost-effective, low power, bi-directional, high-speed data transfer mechanism over a short-range "serial" type data link, which lends itself to implementation with miniature connectors and thin flexible cables which are especially useful in connecting display elements such as wearable micro-displays to portable computers and wireless communication devices.



Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.