

(51) International Patent Classification:

H03K 17/00 (2006.01) H04L 25/493 (2006.01)
G06F 13/376 (2006.01) H02M 1/00 (2007.01)
H04L 12/40 (2006.01) H03K 7/04 (2006.01)
H04L 12/413 (2006.01)

(21) International Application Number:

PCT/GB2014/051849

(22) International Filing Date:

17 June 2014 (17.06.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1311248.7 25 June 2013 (25.06.2013) GB

(71) Applicant: AMANTYS LTD [GB/GB]; Platinum Building, St Johns Innovation Park, Cowley Road, Cambridge, Cambridgeshire CB4 0WS (GB).

(72) Inventors: LEEDHAM, Robert John; c/o Amantys Ltd, Platinum Building, St. John's Innovation Park, Cowley Road, Cambridge, Cambridgeshire CB4 0WS (GB). VIT, Matteo; c/o Amantys Ltd, Platinum Building, St. John's Innovation Park, Cowley Road, Cambridge, Cambridgeshire CB4 0WS (GB). PARKER, Stephen; c/o Amantys Ltd, Platinum Building, St. John's Innovation Park, Cowley

Road, Cambridge, Cambridgeshire CB4 0WS (GB). CRONIN, Ivan; c/o Amantys Ltd, Platinum Building, St. John's Innovation Park, Cowley Road, Cambridge, Cambridgeshire CB4 0WS (GB).

(74) Agent: MARKS & CLERK LLP; 62-68 Hills Road, Cambridge, Cambridgeshire CB2 1LA (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, 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, LT, 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, 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,

[Continued on next page]

(54) Title: LOW-SKEW COMMUNICATION SYSTEM

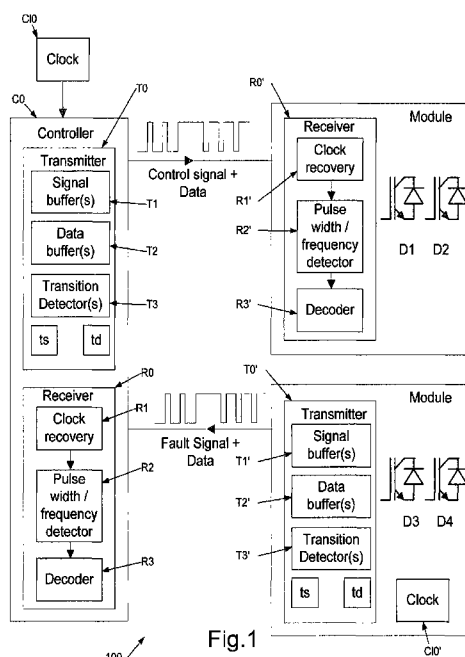


Fig. 1

(57) Abstract: The invention generally relates to power converters, and more particularly to a communications method for controlling at least one power switching device of a power converter, a communications system for a power converter, and a power converter comprising the communications system. For example there is provided a communications method for controlling at least one power switching device of a power converter, the method comprising: inputting a signal to a transmit end of a communications link; inputting data to the transmit end of the communications link; determining whether the signal comprises a transition; when said determination indicates that the signal comprises a transition, transmitting the signal comprising the transition into a communications channel of the communications link, wherein the transmitted signal is delayed by a predetermined time delay relative to the inputted signal, said predetermined time delay to allow said determining; transmitting the data on the communications channel, wherein when said determination indicates that the signal comprises a transition the transmitting the data is delayed until after said transmitting the signal; and if the signal has been transmitted, receiving the transmitted signal at the receive end of the communications link and controlling at least one said power switching device dependent on said received signal.

WO 2014/207436 A1



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

— *with international search report (Art. 21(3))*