(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 August 2008 (28.08.2008)

PCT

(10) International Publication Number
WO 2008/102246 A3

(51) International Patent Classification:
H03K 5/13 (2006.01) *H03L 7/081* (2006.01)

(21) International Application Number:
PCT/IB2008/000394

(22) International Filing Date:
22 February 2008 (22.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/891,197 22 February 2007 (22.02.2007) US

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(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, 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, 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.

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(54) Title: AN APPARATUS FOR GENERATING A PLURALITY OF SIGNALS

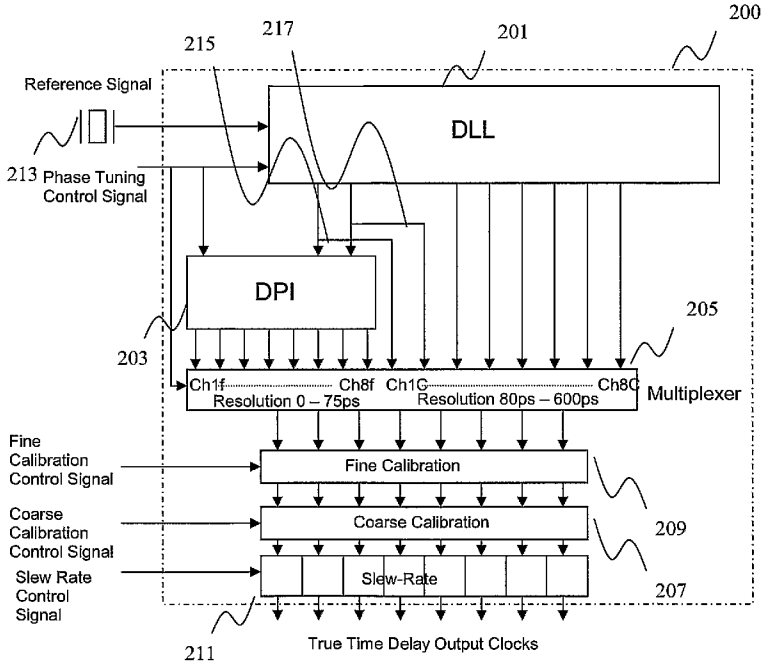

Figure 2

(57) Abstract: An apparatus for generating a plurality of signals is provided. The apparatus provided includes a first signal generation unit, including an input receiving a reference signal, and a plurality of outputs providing a first plurality of output signals being generated based on the reference signal, wherein any two of the output signals have a different phase. The apparatus provided further includes a second signal generation unit, including at least two inputs receiving at least two signals selected from the first plurality of output signals generated by the first signal generation unit, and a plurality of outputs providing a second plurality of output signals being generated by interpolating the respective phases of the received at least two signals selected from the first plurality of output signals. The apparatus provided further includes a selection unit, including a first plurality of inputs receiving the first plurality of output signals generated by the first signal generation unit, a second plurality of inputs receiving the second plurality of output signals generated by the second signal generation unit, and a plurality of outputs providing the plurality of signals wherein each of the signals is selected from the first plurality of output signals generated by the first signal generation unit and the second plurality of output signals generated by the second signal generation unit, wherein any two signals of the plurality of signals have a different phase.

WO 2008/102246 A3

(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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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*

(88) Date of publication of the international search report:
23 October 2008