

(51) International Patent Classification:
G01F 1/84 (2006.01)(21) International Application Number:
PCT/US2011/052106(22) International Filing Date:
19 September 2011 (19.09.2011)

(25) Filing Language: English

(26) Publication Language: English

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80026 (US).(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, 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, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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,
ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

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

(54) Title: VIBRATORY FLOWMETER AND METHOD FOR AVERAGE FLOW RATE

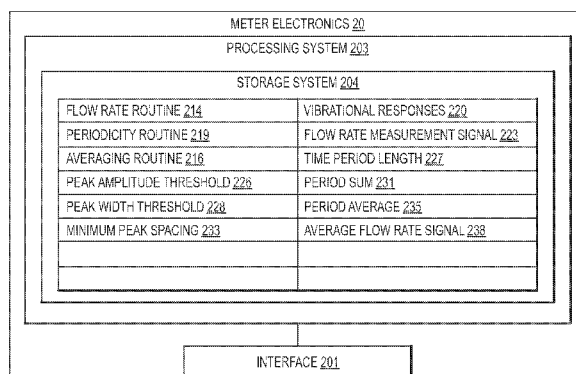


FIG. 2

(57) Abstract: A vibratory flowmeter (5) for determining an average flow rate of a pulsating flow is provided. The vibratory flowmeter (5) includes a flowmeter assembly (10) including at least two pickoff sensors (170L, 170R) and configured to generate at least two vibrational signals and meter electronics (20) configured to receive the at least two vibrational signals and generate a flow rate measurement signal, divide the flow rate measurement signal into a series of time periods, with each time period including a single flow peak that is substantially centered in the time period, totalize flow rate measurements of each time period to generate a period sum, and divide the period sum by a time period length to generate a period average flow rate, wherein the meter electronics (20) outputs a sequence of period average flow rates as an average flow rate signal.