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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, 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.

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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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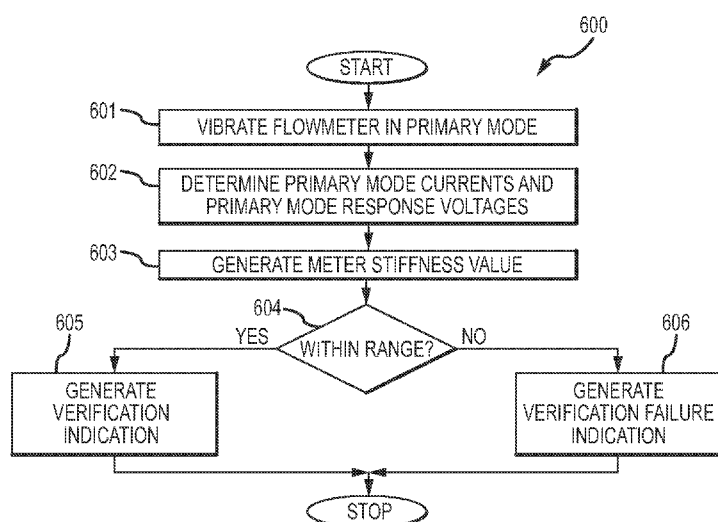
(54) **Title:** VIBRATORY FLOWMETER AND METHOD FOR METER VERIFICATION

FIG.6

(57) **Abstract:** A vibratory flowmeter (5) for meter verification is provided, including meter electronics (20) configured to vibrate the flowmeter assembly (10) in a primary vibration mode using the first and second drivers (180L, 180R), determine first and second primary mode currents (230) of the first and second drivers (180L, 180R) for the primary vibration mode and determining first and second primary mode response voltages (231) generated by the first and second pickoff sensors (170L, 170R) for the primary vibration mode, generate a meter stiffness value (216) using the first and second primary mode currents (230) and the first and second primary mode response voltages (231), and verify proper operation of the vibratory flowmeter (5) using the meter stiffness value (216).



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