

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
08 October 2020 (08.10.2020)



(10) International Publication Number  
**WO 2020/204921 A1**

(51) International Patent Classification:  
*G01F 1/84* (2006.01)

(21) International Application Number:  
PCT/US2019/025537

(22) International Filing Date:  
03 April 2019 (03.04.2019)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **MICRO MOTION, INC.** [US/US]; 7070 Winchester Circle, Boulder, Colorado 80301 (US).

(72) Inventors: **WEINSTEIN, Joel**; 3205 Martinique Avenue, Boulder, Colorado 80301 (US). **MORETT, David Martinez**; 201 N. McKinley Ave., Ft. Collins, Colorado 80521 (US).

(74) Agent: **VICK, Keith** et al.; THE OLLILA LAW GROUP LLC, 2569 Park Lane, Suite 202, Lafayette, Colorado 80026 (US).

KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

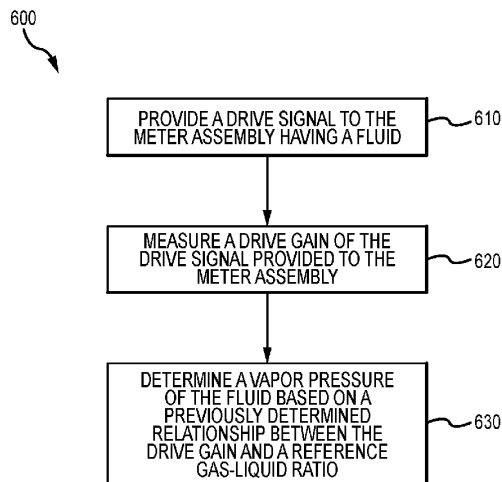
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

**Published:**

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

(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,

(54) Title: DETERMINING A VAPOR PRESSURE USING A VAPOR PRESSURE METER FACTOR



(57) Abstract: A meter electronics (20) for determining a vapor pressure using a vapor pressure meter factor is provided. The meter electronics (20) comprises a processing system (200) communicatively coupled to a meter assembly (10). The processing system (200) is configured to provide a drive signal to the meter assembly (10) having a fluid, measure a drive gain of the drive signal provided to the meter assembly (10), and determine the vapor pressure of the fluid based on a previously determined relationship between the drive gain and a reference gas-liquid ratio.

FIG.6

WO 2020/204921 A1