



- (51) **International Patent Classification:**
G01N 11/16 (2006.01) *G01N 11/00* (2006.01)
- (21) **International Application Number:**
PCT/US2012/057475
- (22) **International Filing Date:**
27 September 2012 (27.09.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (71) **Applicant:** MICRO MOTION, INC. [US/US]; 7070 Winchester Circle, Boulder, Colorado 80301 (US).
- (72) **Inventors:** DIGRAZIA, Xiaoling; 1710 Turin Drive, Longmont, Colorado 80503 (US). SCOTT, Ruth; 1325 Agape Way, Lafayette, Colorado 80026 (US).
- (74) **Agents:** JANSEN, Gregg L. et al.; The Ollila Law Group LLC, 2569 Park Lane, Suite 202, Lafayette, Colorado 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, 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, 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, PA, 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, 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, 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:** METER ELECTRONICS AND METHOD FOR OBTAINING FLOW FLUID VISCOSITY AT A REFERENCE TEMPERATURE

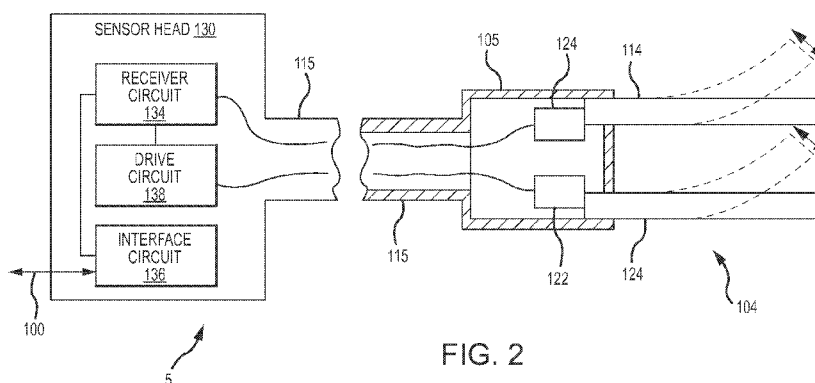


FIG. 2

(57) **Abstract:** Meter electronics (20) and method for obtaining a flow fluid viscosity at a predetermined reference temperature are provided. The meter electronics (20) includes an interface (201) configured to exchange communications, a storage system (204) configured to store a predetermined reference temperature (211), a measured fluid viscosity (214), a measured fluid temperature (215), and a temperature-viscosity relational data (218) that relates temperature to viscosity over a predetermined range of flow fluid temperatures, and a processing system (203) coupled to the interface (201) and to the storage system (204), with the processing system (203) configured to obtain the measured fluid temperature (215), obtain the measured fluid viscosity (214), and generate a reference temperature viscosity (227) using the measured fluid viscosity (214) and the temperature-viscosity relational data (218), with the generated reference temperature viscosity (227) corresponding to the predetermined reference temperature (211).