

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/088256 A3

(51) International Patent Classification⁷: **G01F 1/00**,
25/00, 1/696

(21) International Application Number:
PCT/US2004/009144

(22) International Filing Date: 25 March 2004 (25.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/400,149 26 March 2003 (26.03.2003) US

(71) Applicant (for all designated States except US): **CELER-
ITY GROUP, INC.** [US/US]; 2805 Mission College Blvd.,
Santa Clara, CA 95054 (US).

(72) Inventors; and

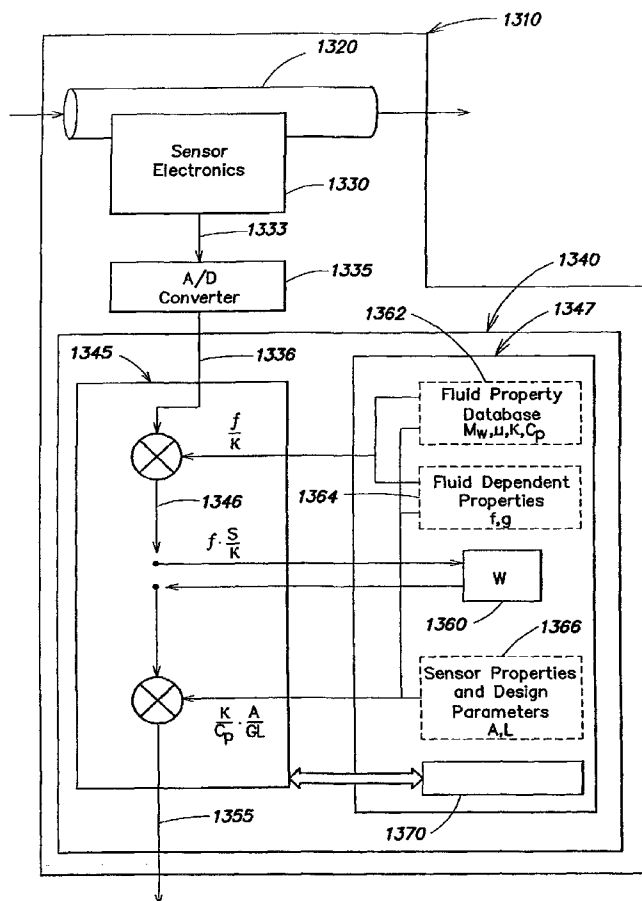
(75) Inventors/Applicants (for US only): **WANG, Chiun**
[US/US]; 12266 Rose Street, Cerritos, CA 90703 (US).
LULL, John, M. [US/US]; P.O. Box 667, Claremont, CA
91711-0667 (US). **VALENTINE, William, S.** [US/US];
15402 Lorraine Way, Irvine, CA 92604 (US).

(74) Agent: **SKRIVANEK, Robert, A., Jr.**; Lowrie, Lando &
Anastasi, LLP, One Main Street, Cambridge, MA 02142
(US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: FLOW SENSOR SIGNAL CONVERSION



(57) Abstract: A Method of obtaining at least one repre-
sentation of a characteristic function of a sensor from a test
fluid during calibration of the sensor according to a sensor
model having a transfer function operating on flow rate, at
least one sensor property and at least one fluid property and
employing the at least one representation of the characteris-
tic function to determine flow rates through the sensor dur-
ing operating with an arbitrary fluid.



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, 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, HU, IE, IT, LU, MC, NL, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.