



(43) International Publication Date
12 December 2013 (12.12.2013)

- (51) International Patent Classification:
G01L 19/06 (2006.01) *F16L 23/02* (2006.01)
G01F 1/34 (2006.01)
- (21) International Application Number:
PCT/US2013/043845
- (22) International Filing Date:
3 June 2013 (03.06.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/656,235 6 June 2012 (06.06.2012) US
13/837,743 15 March 2013 (15.03.2013) US
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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, 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, 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,

[Continued on next page]

(54) Title: PROCESS FLUID FLOW TRANSMITTER WITH FINNED COPLANAR PROCESS FLUID FLANGE

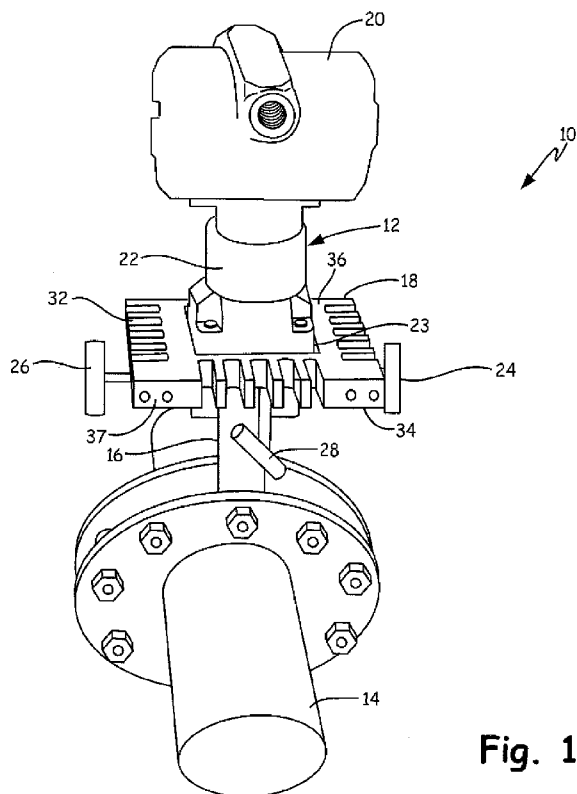


Fig. 1

(57) Abstract: A process fluid pressure measurement system (10) is provided. The system includes a process fluid pressure transmitter (12) having a pair of process fluid ports disposed coplanar with one another on a bottom surface thereof. The process fluid pressure transmitter (12) is configured to measure a differential pressure between the pair of process fluid ports and provide an indication of the measured differential pressure over a process communication loop. A process fluid flange (18) has a first surface (36) configured to mount to the surface of the process fluid pressure transmitter (12), a second surface (34) opposed to the first surface (36), and at least one lateral sidewall (37) extending between the first and second surface (36, 34). A plurality of fins (32) are disposed proximate the lateral surface (37).



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Published:

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

(88) Date of publication of the international search report:

18 September 2014

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/043845

A. CLASSIFICATION OF SUBJECT MATTER

INV. G01L19/06 G01F1/34 F16L23/02
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01L G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 600 742 A2 (BEHR GMBH & CO KG [DE]) 30 November 2005 (2005-11-30) figure 3	1-14
X	GB 01701 A A.D. 1914 (BRITISH THOMSON HOUSTON CO LTD [GB]) 10 December 1914 (1914-12-10) figure 1	15-19



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

17 July 2014

Date of mailing of the international search report

25/07/2014

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/043845

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

a system and a method for fluid pressure measurement

2. claims: 15-19

an assembly for mounting a transmitter

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/043845

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1600742	A2	30-11-2005	DE 102004023744 A1	01-12-2005
			EP 1600742 A2	30-11-2005

GB 191401701	A	10-12-1914	NONE	
