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[US/US]; C/o Rosemount, Inc., 12001 Technology Drive, Eden Prairie, MN 55344-3695 (US).

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(74) Agents: **KOMAREC, Stephen, M.** et al.; Kinney & Lange, P.A., Kinney & Lange Building, 312 South Third Street, Minneapolis, MN 55415-1002 (US).

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(71) Applicant (for all designated States except US): **ROSE-MOUNT INC.** [US/US]; 12001 Technology Drive, Eden Prairie, MN 55344-3695 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HEDTKE, Robert, C.**

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(54) Title: FLANGELESS DIFFERENTIAL PRESSURE TRANSMITTER FOR INDUSTRIAL PROCESS CONTROL SYSTEMS

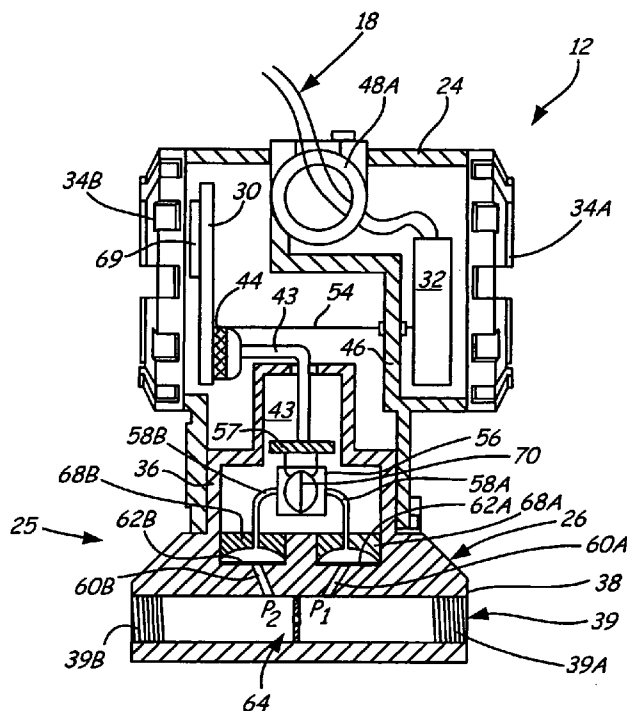


FIG. 3

(57) Abstract: An industrial pressure transmitter (12), for use in industrial process control systems (10), comprises a differential pressure sensor (56) and an integrated process connector (26) connected to the differential pressure sensor (56). A process fluid flow duct (39) extends through the process connector (26) and receives an industrial process fluid. A primary element (64) is positioned in the process fluid flow duct (39) for producing a pressure differential in the process fluid across the primary element (64). The differential pressure sensor (56) is connected to the process fluid flow duct (39) to sense the pressure differential across the primary element (64).

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FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,  
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IPC: **G01F 1/44(2006.01)**

USPC: 073/861.630

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)

U.S. : 073/861.630, 700-710, 711-719, 720-729, 730-739, 740-749, 750-756

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)

USPAT, US-PGPUB, FPRS, EPO, JPO, DERWENT, IBM\_TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0172738 A1 (BRODEN) 11 August 2005 (11.08.2005)	1-8, 10-18, 20-26, 28, 29
Y	US 6,920,795 B2 (BISCHOFF et al.) 26 July 2005 (26.07.2005)	1-8, 10-18, 20-26, 28, 29
Y	US 4,745,810 A (PIERCE et al.) 24 May 1988 (24.05.1988)	5, 6, 17
Y	US 6,640,650 B2 (MATSUZAWA et al.) 04 November 2003 (04.11.2003)	8, 18, 26

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Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

TERI LUU

Telephone No. 571-272-3600