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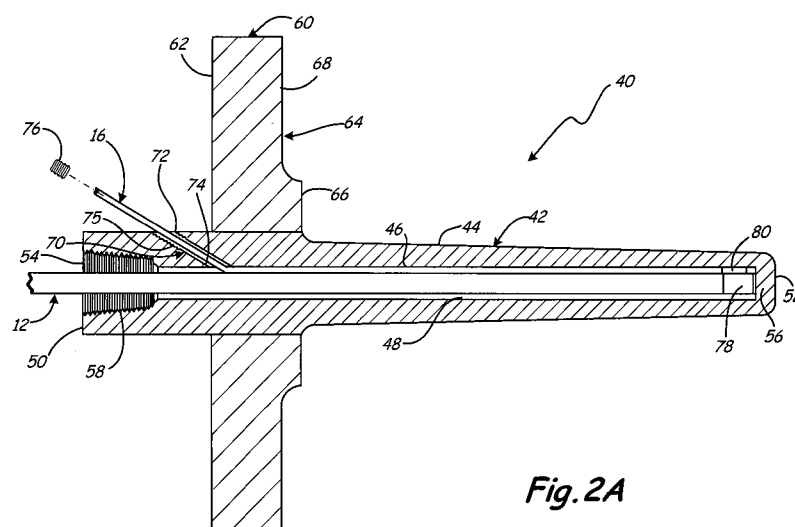
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(54) **Title:** ONLINE CALIBRATION OF A TEMPERATURE MEASUREMENT POINT**Fig. 2A**

(57) **Abstract:** A system for measuring temperature includes a thermowell, a primary temperature sensor, a reference sensor, and a transmitter. The thermowell has a measurement instrument connection and a side port. The primary temperature sensor extends into the thermowell through the measurement instrument connection, and the reference sensor extends into the thermowell through the side port. The transmitter is connected to each of the primary temperature sensor and the reference sensor. The transmitter has circuitry for measuring temperature based upon signals received from the primary temperature sensor and for concurrently calibrating based upon signals received from the reference sensor.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER <i>G01K 15/00(2006.01)i, G01K 7/16(2006.01)i, G01K 13/02(2006.01)i, G01K 1/02(2006.01)i</i> 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) G01K 15/00; H01L 35/02; G01K 1/08; G01N 25/00; G01; G01K 1/00; G01K 7/00; G01K 7/01 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models Japanese utility models and applications for utility models Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: thermowell, reference sensor, side port				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 2009-0110023 A1 (CLARK, JR. WILLIAM F. et al.) 30 April 2009 See All document	1-31		
A	US 4859076 A1 (TWERDOCHLIB; MICHAEL) 22 August 1989 See All document	1-31		
A	US 6045261 A1 (ROSSUM; NEIL VAN et al.) 04 April 2000 See All document	1-31		
A	US 4778538 A1 (LYMAN; WALTER G.) 18 October 1988 See All document	1-31		
A	US 5700090 A1 (ERYUREK; EVREN) 23 December 1997 See All document	1-31		
A	US 5961215 A1 (LEE; THOMAS H. et al.) 05 October 1999 See All document	1-31		
A	US 5746511 A1 (ERYUREK; EVREN et al.) 05 May 1998 See All document	1-31		
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.				
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Information on patent family members

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