



(51) International Patent Classification:
G01L 1/02 (2006.01)

(21) International Application Number:
PCT/IB2017/057279

(22) International Filing Date:
21 November 2017 (21.11.2017)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
102016000118077 22 November 2016 (22.11.2016) IT

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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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA,

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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

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

05 July 2018 (05.07.2018)

(54) Title: AN INTEGRATED SYSTEM AND METHOD FOR MEASURING DEFORMATIONS AND/OR STRESSES IN ONE-DIMENSIONAL ELEMENTS

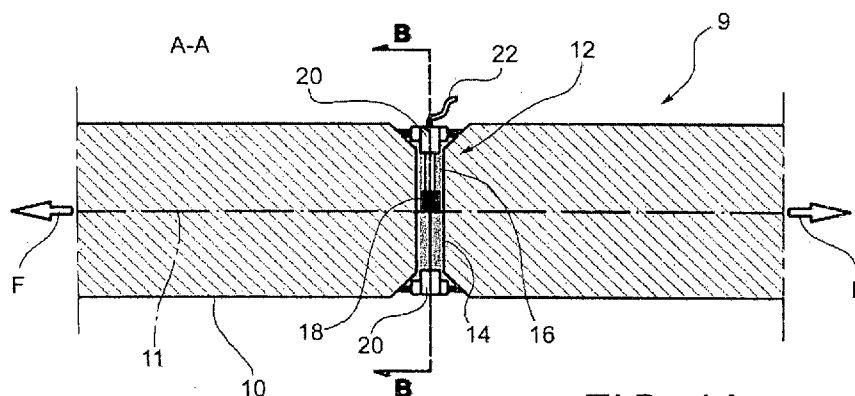


FIG. 1A

(57) Abstract: An integrated measuring system (9) comprises a structural element (10) for building constructions, having an internal cavity (14), hermetically closed to contain a compressible fluid (16), and a measuring system (12) for measuring stresses and/or deformations on the structural element (10), measuring system (12) whereby it is possible to measure the pressure and temperature of the fluid (16) so as to measure a change in fluid pressure and determine a variation of the volume of the cavity (14) resulting from an action (F) imparted to the structural element (10).



INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2017/057279

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01L1/02
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

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)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 10 2013 012690 A1 (TECSIS GMBH [DE]) 26 February 2015 (2015-02-26) abstract; figures 2-6 paragraphs [0003], [0014] - [0017] -----	1-15
X	US 4 563 906 A (MATHIAS RICHARD A [US]) 14 January 1986 (1986-01-14) abstract; figures 1,2 column 1, lines 44-63 column 4, lines 4-68 -----	1-15
A	DE 20 2014 005194 U1 (TECH UNIVERSITÄT ILMENAU [DE]) 23 July 2014 (2014-07-23) abstract; figure 2 paragraph [0009] -----	1,8



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Date of the actual completion of the international search

31 May 2018

Date of mailing of the international search report

07/06/2018

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2017/057279

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 102013012690 A1	26-02-2015	NONE	
US 4563906 A	14-01-1986	NONE	
DE 202014005194 U1	23-07-2014	NONE	