

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 December 2021 (30.12.2021)



(10) International Publication Number
WO 2021/258202 A1

(51) International Patent Classification:

G01K 11/32 (2021.01) G01K 7/22 (2006.01)
H05B 1/02 (2006.01) G01K 7/02 (2021.01)

(21) International Application Number:

PCT/CA2021/050858

(22) International Filing Date:

22 June 2021 (22.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/705,323 22 June 2020 (22.06.2020) 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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

(54) Title: FIBER OPTIC TEMPERATURE PROBE FOR TEMPERATURE LIMITING APPLICATIONS

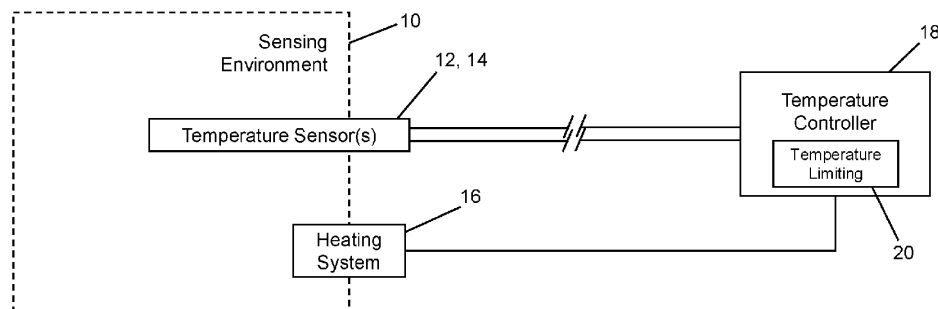


FIG. 1

(57) Abstract: An optical temperature sensing system is disclosed which includes a fiber optic sensor as a primary temperature sensor for reading a temperature of a measured object or a measured environment. The temperature probe is coupled to a converter which generates using solid-state electronic components without software, a temperature output. A temperature sensing system is also disclosed that includes a temperature sensor for reading a temperature of a measured object, and a dual converter module comprising a first converter to provide a primary temperature sensor signal, and a second converter to generate a secondary temperature sensor signal from a signal provided by the first converter. An optical temperature sensor is also described, with a conversion module that generates an output that mimics the output of a thermistor or a thermocouple.

[Continued on next page]

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

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

- *with international search report (Art. 21(3))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*