

Title (en)

DEVICE FOR THE CAPACITIVE ANALYSIS OF A MOVING ELONGATE TEST OBJECT

Title (de)

VORRICHTUNG ZUR KAPAZITIVEN UNTERSUCHUNG EINES BEWEGTEN STRANGFÖRMIGEN PRÜFGUTES

Title (fr)

DISPOSITIF D'ANALYSE CAPACITIVE D'UN OBJET D'ESSAI ALLONGÉ ET MOBILE

Publication

EP 4314794 A1 20240207 (DE)

Application

EP 22709553 A 20220303

Priority

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- CH 2022000001 W 20220303

Abstract (en)

[origin: WO2022198341A1] A device (1) for the capacitive analysis of a moving elongate test object (9) contains a first capacitor arrangement (2.1) with a first passage opening (21.1), through which the test object (9) can be moved, and a first capacitor (5.1), the capacitance of which can be influenced by a test object (9) located in the first passage opening (21.1) and which has a first capacitance with no test object (9) present. The device (1) further contains a second capacitor arrangement (2.2) with a second passage opening (21.1) and a second capacitor (5.2) which is arranged at the second passage opening (21.2) and which has a second capacitance. The first capacitor (5.1) and the second capacitor (5.2) are parts of a measuring bridge. The first capacitor arrangement (2.1) and the second capacitor arrangement (2.2) are provided and arranged in such a way that, in the event of a change in temperature over time, a difference between the first capacitance and the second capacitance remains substantially constant. This results in improved temperature stability of the device (1).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2022198341A1

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