

Title (en)

Probe for measuring stretch in a borehole

Title (de)

Bohrloch-Streckenmesssonde

Title (fr)

Sonde pour la mesure d'espacement dans un trou de forage

Publication

EP 1662225 A1 20060531 (DE)

Application

EP 05024153 A 20051105

Priority

DE 102004057642 A 20041130

Abstract (en)

The probe has retaining units (17a, 17b, 20a, 20b) brought in contact with a measuring tube and a displacement transducer detecting an opposite space of the retaining units. An evaluation unit evaluates obtained measured values. The units are adjusted perpendicular to longitudinal direction of the probe and radial to the tube and are stretched radially outward against an inner wall of the tube under the effect of springs (18, 21).

IPC 8 full level

G01B 5/30 (2006.01); **E21B 47/01** (2012.01); **E21D 21/00** (2006.01)

CPC (source: EP US)

E21B 47/01 (2013.01 - EP US); **E21D 21/0046** (2013.01 - EP)

Citation (search report)

- [A] EP 0487872 A1 19920603 - KOVARI KALMAN [CH], et al
- [A] US 4327590 A 19820504 - KOVARI KALMAN, et al
- [A] US 4739652 A 19880426 - KOVARI KALMAN [CH], et al
- [A] FR 2766230 A1 19990122 - BAYLE FRANCIS [FR]
- [A] US 5355950 A 19941018 - ZWART KLAAS [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

Cited by

ES2331216A1; CN110454230A; CN111473769A; CN106285633A; CN113883977A; US2023008447A1; US11572781B2; EP2527538A1; ITGE20110046A1; CN113367726A; WO2023279437A1

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