Title (en)

MEASURING DEVICE FOR MEASURING THE DIELECTRIC AND/OR MAGNETIC PROPERTIES OF A SAMPLE BY MEANS OF A MICROWAVE TRANSMISSION MEASUREMENT, APPARATUS USING SUCH A MEASURING DEVICE, AND METHOD USING SUCH AN APPARATUS

Title (de)

MESSEINRICHTUNG ZUR MESSUNG DER DIELEKTRISCHEN UND/ODER MAGNETISCHEN EIGENSCHAFTEN EINER PROBE MITTELS EINER MIKROWELLEN-TRANSMISSIONSMESSUNG, VORRICHTUNG UNTER VERWENDUNG EINER SOLCHEN MESSEINRICHTUNG UND VERFAHREN UNTER VERWENDUNG EINER SOLCHEN VORRICHTUNG

Title (fr)

MOYEN DE MESURE DES PROPRIÉTÉS DIÉLECTRIQUES ET/OU MAGNÉTIQUES D'UN ÉCHANTILLON PAR MESURE DE TRANSMISSION DE MICROONDES, DISPOSITIF UTILISANT UN TEL MOYEN DE MESURE ET PROCÉDÉ UTILISANT UN TEL DISPOSITIF

Publication

EP 3332246 A1 20180613 (DE)

Application

EP 16753274 A 20160728

Priority

- DE 102015010300 A 20150807
- EP 2016067999 W 20160728

Abstract (en)

[origin: CA2994484A1] A microwave measuring device having a transmitting module (SM) and a receiving module (EM) and an apparatus having these modules are described. The two modules (SM, EM) are accommodated either in a common housing (G) or in separate housings. The transmitting module (SM) can be coupled to a transmitting antenna (10) and the receiving module (EM) can be coupled to a receiving antenna (20). In order to compensate for measurement errors, in particular temperature-related measurement errors, at least one RF bypass cable (61) runs outside the housing (G)/the housings and can be used to couple the transmitting module (SM) and the receiving module (EM) while bridging the measuring section defined by the two antennas (10, 20).

IPC 8 full level

G01N 22/00 (2006.01)

CPC (source: EP US)

G01N 22/00 (2013.01 - EP US); **G01N 22/04** (2013.01 - US)

Citation (search report)

See references of WO 2017025340A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102016113917 A1 20170209; AU 2016307138 A1 20180222; CA 2994484 A1 20170216; EP 3332246 A1 20180613; US 10247681 B2 20190402; US 2018231476 A1 20180816; WO 2017025340 A1 20170216

DOCDB simple family (application)

DE 102016113917 A 20160728; AU 2016307138 A 20160728; CA 2994484 A 20160728; EP 16753274 A 20160728; EP 2016067999 W 20160728; US 201615749738 A 20160728