

Title (en)
APPARATUS FOR CHARACTERIZING THE ELECTRICAL RESISTANCE OF A MEASUREMENT OBJECT

Title (de)
VORRICHTUNG ZUM CHARAKTERISIEREN DES ELEKTRISCHEN WIDERSTANDES EINES MESSOBJEKTS

Title (fr)
DISPOSITIF DE CARACTÉRISATION DE LA RÉSISTANCE ÉLECTRIQUE D'UN OBJET SOUS TEST

Publication
EP 3596451 A1 20200122 (DE)

Application
EP 18709975 A 20180301

Priority
• DE 102017105317 A 20170314
• EP 2018054992 W 20180301

Abstract (en)
[origin: WO2018166800A1] The invention relates to a measuring apparatus for characterizing the electrical resistance of a measurement object, comprising an electric energy source having two poles, a voltage measuring device having two measuring inputs, four connecting contacts for the connection of four contact electrodes, and a switching device for the variable electrical pairwise connection of each one of the poles and measuring inputs to each one of the connecting contacts, forming different wiring configurations, wherein the measuring device is configured to carry out at least two measuring sequences with different wiring configurations and to determine the series resistance of the measurement object by incorporating the current and voltage signals acquired in these wiring configurations.

IPC 8 full level
G01N 27/04 (2006.01)

CPC (source: EP US)
G01N 27/04 (2013.01 - US); **G01N 27/041** (2013.01 - EP); **G01N 27/92** (2013.01 - US)

Citation (search report)
See references of WO 2018166800A1

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 102017105317 B3 20180509; CN 110392827 A 20191029; CN 110392827 B 20220513; DE 202018006813 U1 20230228; EP 3596451 A1 20200122; US 11156574 B2 20211026; US 2019346387 A1 20191114; WO 2018166800 A1 20180920

DOCDB simple family (application)
DE 102017105317 A 20170314; CN 201880017425 A 20180301; DE 202018006813 U 20180301; EP 18709975 A 20180301; EP 2018054992 W 20180301; US 201816483937 A 20180301