

Title (en)

PORTABLE TEST METER WITH BACKLIGHT BATTERY DEPLETION MONITORING

Title (de)

TRAGBARES TESTMESSGERÄT MIT RÜCKBELEUCHTETER BATTERIEENTLADUNGSÜBERWACHUNG

Title (fr)

APPAREIL DE MESURE DE TEST PORTABLE AVEC SURVEILLANCE DE L'ÉPUISEMENT DE LA BATTERIE DE RÉTROÉCLAIRAGE

Publication

**EP 4004571 A1 20220601 (EN)**

Application

**EP 19749985 A 20190724**

Priority

US 2019043222 W 20190724

Abstract (en)

[origin: WO2021015756A1] A test meter and related method for monitoring the condition of a backlight battery of the meter in which the meter includes a housing, controller, display with backlight and a battery monitoring circuit. An off-time of the meter is measured and compared to a predetermined recovery time of the backlight battery. If the off-time of the meter is greater than the predetermined recovery time of the backlight battery, a voltage of the backlight battery is measured at a predetermined time after energizing the backlight and compared to a first predetermined voltage in excess of a threshold voltage of the backlight battery. If the measured voltage is less than the first predetermined voltage, the measured voltage is compared to a second predetermined voltage between the first predetermined voltage and the threshold voltage. A battery depletion warning is displayed if the measured voltage is less than the second predetermined voltage.

IPC 8 full level

**G01R 31/3835** (2019.01)

CPC (source: EP)

**G01R 31/3835** (2019.01)

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)

**WO 2021015756 A1 20210128**; CA 3148390 A1 20210128; CN 114556123 A 20220527; EP 4004571 A1 20220601; JP 2022542085 A 20220929; JP 2024001216 A 20240109

DOCDB simple family (application)

**US 2019043222 W 20190724**; CA 3148390 A 20190724; CN 201980100725 A 20190724; EP 19749985 A 20190724; JP 2022504315 A 20190724; JP 2023176811 A 20231012