

Title (en)

METHOD AND DEVICE FOR MARKING ELECTRICAL APPLIANCES WHICH ARE ARRANGEABLE IN A ROW

Title (de)

VERFAHREN UND VORRICHTUNG ZUM MARKIEREN VON ANEINANDERREIHBAREN ELEKTRISCHEN GERÄTEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MARQUAGE D'APPAREILS ÉLECTRIQUES SUSCEPTIBLES D'ÊTRE DISPOSÉS EN RANGÉE

Publication

**EP 4065378 B1 20230830 (DE)**

Application

**EP 20816132 A 20201124**

Priority

- DE 102019131750 A 20191125
- EP 2020083245 W 20201124

Abstract (en)

[origin: WO2021105140A1] The invention relates to a method for marking electrical appliances (2) which are arrangeable in a row, and which are arranged on a support rail (1), with the aid of a laser head (21), wherein the support rail (1) is pivotable about the longitudinal axis thereof, and the laser head (21) is guided so as to be movable at least along the longitudinal axis of the support rail (1). The method comprises the following steps: - specifying a number of marking instructions, each comprising a marking content and a position and an orientation of the surface to which the marking content is to be applied; - creating an image of at least a section of the support rail (1) and at least one electrical device (2) from an image capture device, and correcting at least one of the positions at which one of the marking contents is to be applied on the basis of an evaluation of the image; - grouping the marking instructions in marking levels (3) in such a way that all the marking instructions of one marking level (3) can be applied by the laser head (21) without a movement of the laser head (21) or of the support rail (1), wherein the marking levels (3) differ in terms of spatial coordinates and/or parameters for the laser head (21); - selecting a first one of the marking levels (3); - positioning the laser head (21) and/or pivoting the support rail (1) in accordance with the spatial coordinates of the selected marking level (3); - applying markings (5) in accordance with the marking instructions of the selected marking level (3) with the parameters for the laser head (21); and - selecting a next one of the marking levels (3) for marking on the basis of those movements of the laser head (21) and of the support rail (1) which would be necessary to enable markings in accordance with the next one of the marking levels (3) to be applied. The invention further relates to a device for carrying out said method.

IPC 8 full level

**B41M 5/24** (2006.01); **B41J 3/407** (2006.01); **B41M 5/26** (2006.01)

CPC (source: EP US)

**B41J 2/442** (2013.01 - EP); **B41J 3/40731** (2020.08 - US); **B41M 5/24** (2013.01 - EP US); **B41M 5/26** (2013.01 - EP); **B41J 3/4073** (2013.01 - EP); **H01R 9/2683** (2013.01 - EP)

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

DOCDB simple family (publication)

**WO 2021105140 A1 20210603**; CN 114981093 A 20220830; CN 114981093 B 20231103; DK 4065378 T3 20231127; EP 4065378 A1 20221005; EP 4065378 B1 20230830; ES 2966818 T3 20240424; PL 4065378 T3 20240129; US 11932036 B2 20240319; US 2023016755 A1 20230119

DOCDB simple family (application)

**EP 2020083245 W 20201124**; CN 202080093713 A 20201124; DK 20816132 T 20201124; EP 20816132 A 20201124; ES 20816132 T 20201124; PL 20816132 T 20201124; US 202017778737 A 20201124