

Title (en)

LOCKING DEVICE FOR LOCKING A DOOR OF A DOMESTIC APPLIANCE, DOMESTIC APPLIANCE, AND CORRESPONDING METHOD

Title (de)

VERRIEGELUNGSEINRICHTUNG ZUM VERRIEGELN EINER TÜR EINES HAUSHALTSGERÄTS, HAUSHALTSGERÄT UND ENTSPRECHENDES VERFAHREN

Title (fr)

DISPOSITIF DE VERROUILLAGE PERMETTANT DE VERROUILLER UNE PORTE D'UN APPAREIL MÉNAGER, APPAREIL MÉNAGER ET PROCÉDÉ CORRESPONDANT

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Application

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Abstract (en)

[origin: WO2015173145A1] The invention relates to a locking device (6) for locking a door (5) of a domestic appliance (1), comprising a locking element (27) for mechanically locking the door (5), comprising a driving element (20) for moving the locking element (27) from an unlocking position in which the door (5) is unlocked into a locking position in which the door (5) is locked by the locking element (27), depending upon a current flow (I) through the driving element (20), wherein the driving element (20) is electrically coupled to a DC voltage source (12), comprising a switching element (22, 23) electrically coupled to the driving element (20) for controlling the current flow (I) through the driving element (20), and comprising a control unit (25) for controlling the switching element (22, 23), wherein the control unit (25) is designed for controlling the current flow (I) through the driving element (20) to emit a sequence of control pulses (30) to the switching element (22, 23). The locking device (6) comprises means for detecting a current voltage value (V) of a DC voltage (VZK) provided by the DC voltage source (12), wherein the control unit (25) is designed to adjust a pulse length (w) of the control pulses (30) as a function of the current voltage value (V).

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