

Title (en)  
DEVICE FOR OPENING THERMALLY INSULATING SLIDING DOORS

Title (de)  
VORRICHTUNG ZUM ÖFFNEN VON THERMISCH ISOLIERENDEN SCHIEBETÜREN

Title (fr)  
DISPOSITIF POUR OUVRIR DES PORTES COULISSANTES ISOLEES THERMIQUEMENT

Publication  
**EP 3660246 B1 20210804 (EN)**

Application  
**EP 19211735 A 20191127**

Priority  
IT 201800010701 A 20181129

Abstract (en)  
[origin: EP3660246A1] The device (10) comprises: an outer handle (14); an inner handle (16); a shaft (18) inserted into a through hole (20) of a door leaf (12) of the sliding door, coaxially thereto, wherein the outer handle (14) and the inner handle (16) are attached (24, 28) to opposite ends of the shaft (18); a mounting plate (48) secured (50) to the inner side (12b) of the door leaf (12) in the region of the through hole (20); a bush-shaped inner support element (38) inserted into the through hole (20) of the door leaf (12), coaxially thereto, for supporting the shaft (18) for rotation about its own axis (x), the inner support element (38) being secured (52) to the mounting plate (48); an outer support element (40) for supporting, along with the inner support element (38), the shaft (18) for rotation about its own axis (x), the outer support element (40) comprising a head portion (66) and a stem portion (68); and guide means (54, 56) for bringing about, as a result of the rotation of the shaft (18) about its own axis (x), a simultaneous translation of the shaft (18) along said axis (x). According to the invention, the outer support element (40) has a plurality of axial threaded holes, and the device (10) further comprises a corresponding plurality of tie-rods (78) each having a head (80) and a threaded shaft (82), the tie-rods (78) being inserted each into a respective through hole (84) of the mounting plate (48) with the respective head (80) in abutment against said plate (48) and being each screwed in a respective axial threaded hole of the outer support element (40) so as to bring the head portion (66) of the outer support element (40) into abutment against the outer side (12a) of the door leaf (12).

IPC 8 full level  
**E05B 1/00** (2006.01); **E05B 17/00** (2006.01); **E05B 65/00** (2006.01); **E05F 11/54** (2006.01); **E05B 65/08** (2006.01)

CPC (source: EP)  
**E05B 1/0015** (2013.01); **E05B 1/0092** (2013.01); **E05B 17/0033** (2013.01); **E05B 65/0053** (2013.01); **E05F 11/54** (2013.01); **E05B 1/003** (2013.01); **E05B 65/08** (2013.01); **E05Y 2900/102** (2013.01)

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

DOCDB simple family (publication)  
**EP 3660246 A1 20200603**; **EP 3660246 B1 20210804**; ES 2887277 T3 20211222; IT 201800010701 A1 20200529

DOCDB simple family (application)  
**EP 19211735 A 20191127**; ES 19211735 T 20191127; IT 201800010701 A 20181129