

Title (en)  
DEVICE FOR OPENING AND CLOSING THE DOORS OF AN ISOTHERMAL VAN

Title (de)  
VORRICHTUNG ZUM ÖFFNEN UND SCHLIESSEN DER TÜREN EINES ISOLIERTRANSPORTERS

Title (fr)  
DISPOSITIF D'OUVERTURE ET DE FERMETURE DES PORTES D'UN FOURGON ISOTHERME

Publication  
**EP 4339408 A1 20240320 (EN)**

Application  
**EP 23197792 A 20230915**

Priority  
IT 202200019161 A 20220919

Abstract (en)  
Device for opening and closing the rear doors (2, 3) of a van (1) preferably isothermal, said van (1) comprising a roof (1a), a bottom (1b), two opposite sides (4) and two doors (2, 3). For each door (2, 3), said device comprises:- a first actuator (23, 33) arranged on the inside of said doors (2, 3), suited to open a door and moved by an electric, hydraulic or pneumatic cylinder (24, 34) which moves a rod (25, 35) connected to it in such a way that a lever (26) connected to said rod (25) rotates a vertical cylinder (27) equipped with a pawl (29) which allows the opening of said door;- a second actuator (250, 350), also suited to open a door, arranged on the inside of said doors (2, 3) and arranged at the level of either the roof (1a) or the bottom (1b) of said van (1), said second actuator (250, 350) comprising a motor (252, 352) configured to translate a rod (251, 351) that is integral with a rack (253, 353) meshing with a pinion (254, 354), said pinion (254, 354) being integral with a guide plate (255, 355) configured to guide the translation of a movable bar (255c, 355c), said movable bar (255c, 355c) having two opposite terminal parts (255a, 255b, 355a, 355b), one said terminal part (255b, 355b) being connected to a vertical cylinder (27, 37), said vertical cylinder (27, 37) being inserted in a vertical tubular element (28, 38) arranged on the outside of one said door (2, 3), said vertical tubular element (28, 38) being fixed to said door (2, 3); the first actuator (23, 33) is configured to carry out the unlocking of the opening of said doors (2, 3), while the second actuator (250, 350) is configured to open a corresponding door (2, 3) of the van (1).

IPC 8 full level  
**E05F 15/53** (2015.01); **E05F 15/619** (2015.01); **E05F 15/63** (2015.01)

CPC (source: EP)  
**E05F 15/53** (2015.01); **E05F 15/619** (2015.01); **E05F 15/63** (2015.01); **E05Y 2201/434** (2013.01); **E05Y 2201/448** (2013.01); **E05Y 2201/686** (2013.01); **E05Y 2201/716** (2013.01); **E05Y 2201/722** (2013.01); **E05Y 2800/22** (2013.01); **E05Y 2900/516** (2013.01)

Citation (search report)  
• [A] WO 2013171771 A1 20131121 - TECNOCUPOLE PANCALDI S P A [IT], et al  
• [A] US 6217097 B1 20010417 - ROGERS JR LLOYD WALKER [US], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4339408 A1 20240320**; IT 202200019161 A1 20240319

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