

Title (en)

NEW SWING DOOR WITH ROTARY-TRANSLATORY DOOR LEAF MOVEMENT

Title (de)

NEUE SCHWENKTÜR MIT ROTIERENDER TRANSLATORISCHER TÜRFLÜGELBEWEGUNG

Title (fr)

NOUVELLE PORTE BATTANTE AVEC MOUVEMENT ROTATIF-TRANSLATOIRE DU VANTAIL DE PORTE

Publication

**EP 4050190 B1 20231004 (EN)**

Application

**EP 22158452 A 20220224**

Priority

IT 202100004547 A 20210226

Abstract (en)

[origin: EP4050190A1] Door (10) comprising a door leaf (12) movable between a closed and an open position and a system of movement (20) comprising in turn an upper coupling device (21) and a lower coupling device (22) of the pinion-rack type, for connecting the door leaf with a fixed frame (11) of the door, said coupling devices comprising a respective runner (21b, 22b) suitable for translating along the upper (12b) and lower (12c) horizontal edges of the door leaf, and a toothed pinion (21e, 22e), secured by a pin (21d, 22d) to the fixed frame and a rack (21f, 22f), fixed to the door leaf and engaged with the toothed pinion in which the runner of each coupling device has a circular seat that couples with the corresponding pin so as to define a rotoidal coupling, comparable to a hinge, between the runner and the fixed pin. The door has the advantage of involving a space, of smaller size, subject to the risk of crushing objects along the side of hinging of the door leaf, and a wider passage with respect to current pivot doors with fixed axis of rotation.

IPC 8 full level

**E06B 3/50** (2006.01); **E05D 7/081** (2006.01); **E06B 3/70** (2006.01)

CPC (source: EP)

**E05D 3/022** (2013.01); **E06B 3/5018** (2013.01); **E06B 3/70** (2013.01); **E05D 7/081** (2013.01); **E05F 15/619** (2015.01); **E05Y 2201/716** (2013.01); **E05Y 2201/722** (2013.01); **E05Y 2900/11** (2013.01); **E05Y 2900/132** (2013.01)

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