

Title (en)
Sliding door with reversible sliding system

Title (de)
Schiebetür mit umkehrbarem Schiebesystem

Title (fr)
Porte coulissante à système de coulissement réversible

Publication
EP 2584131 B1 20151125 (EN)

Application
EP 12188959 A 20121018

Priority
IT TO20110952 A 20111020

Abstract (en)
[origin: EP2584131A1] The door (10) comprises a leaf (12) and a horizontal sliding system (18) arranged to guide the leaf (12) in the opening/closing movement along a longitudinal direction (F). The sliding system (18) comprises a rail (24, 26) and a pair of ramps (44, 46). The leaf (12) is provided with two rollers (20) by means of which it is hanged to the sliding system (18). The rollers (20) are in contact with respective rolling surfaces (32, 34) of the rail (24, 26) to roll along these surfaces during the opening/closing movement of the door. The sliding system (18) further comprises a pair of ramps (44, 46), each of which forms a rolling track (48, 50) arranged to cooperate with a respective roller (20) to cause the roller (20), and hence the leaf (12), to move both downwards and towards the inside of the door in a direction perpendicular to the plane of the leaf (12). The rail (24, 26) comprises a first rail portion (24) and a second rail portion (26), each of which forms an upper rolling surface (32) and a lower rolling surface (34). The two rail portions (24, 26) have an identical cross-section of symmetrical shape with respect to a horizontal plane of symmetry. The two ramps (44, 46) are made as separate components with respect to the two rail portions (24, 26) and are identical to each other. The two ramps (44, 46) have a symmetrical configuration with respect to the aforesaid plane of symmetry and are mounted one (44) between the two rail portions (24, 26) and the other (46) at the end of either (26) of the two rail portions (24, 26).

IPC 8 full level
E05D 15/10 (2006.01)

CPC (source: EP RU)
E05D 15/1021 (2013.01 - EP); **F25D 23/02** (2013.01 - RU); **E05F 5/003** (2013.01 - EP); **E05Y 2201/638** (2013.01 - EP); **E05Y 2201/684** (2013.01 - EP); **E05Y 2800/174** (2013.01 - EP); **E05Y 2800/21** (2013.01 - EP); **E05Y 2800/22** (2013.01 - EP); **E05Y 2800/244** (2013.01 - EP); **E05Y 2800/298** (2013.01 - EP); **E05Y 2900/102** (2013.01 - EP)

Cited by
CN107542369A; CN114135192A; CN111101812A; CN110621840A; US11098512B2; WO2018204952A1

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 2584131 A1 20130424; **EP 2584131 B1 20151125**; BR 102012026639 A2 20131029; BR 102012026639 B1 20201208; ES 2562823 T3 20160308; IT TO20110952 A1 20130421; RU 2012143612 A 20140420; RU 2606094 C2 20170110

DOCDB simple family (application)
EP 12188959 A 20121018; BR 102012026639 A 20121017; ES 12188959 T 20121018; IT TO20110952 A 20111020; RU 2012143612 A 20121011