

Title (en)

Mechanism for closing and opening a swinging-sliding door leaf

Title (de)

Mechanismus zum Schließen und Öffnen eines Schwing-Schiebe-Türblatts

Title (fr)

Mécanisme pour l'ouverture et la fermeture d'un battant de porte pivotant/coulissant

Publication

EP 2325424 B1 20160127 (EN)

Application

EP 10382297 A 20101112

Priority

ES 200902219 A 20091124

Abstract (en)

[origin: EP2325424A2] The invention relates to a mechanism for closing and opening a swinging-sliding door leaf (1), comprising a fixed horizontal guide (4), over which a carriage (5) slides, and a groove-cam (6) which is almost entirely rectilinear, except in at least one of its ends in which it forms a curvilinear portion (6a) towards one of the sides of the door and over which a wheel (9) supported in the door leaf slides, the mechanism comprising a push-pull connecting rod (10), fixed in articulated manner to the carriage (5) and to the door leaf (1), the first point of articulation (11) with the door leaf of which remains during the closing of the door in front of the imaginary line (100) transverse to the guide (4) passing through its second point of articulation (12) with the carriage (5); whereas when the carriage (5) reaches the end of its path, due to the effect of the curvilinear portion (6a) of the groove, the connecting rod is forced to rotate until its first point of articulation (11) is located behind the mentioned imaginary line (100).

IPC 8 full level

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CPC (source: EP ES)

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Cited by

CN111706196A; CN104047490A; CN103046827A; US9009918B2

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