

## 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 A2 20110525 (EN)**

## Application

**EP 10382297 A 20101112**

## Priority

ES 200902219 A 20091124

## Abstract (en)

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

**E05D 15/10** (2006.01); **E05F 15/646** (2015.01)

## CPC (source: EP ES)

**E05D 15/1068** (2013.01 - EP ES); **E05F 15/646** (2015.01 - EP ES); **E05D 2015/1076** (2013.01 - EP); **E05Y 2201/22** (2013.01 - EP); **E05Y 2201/232** (2013.01 - EP); **E05Y 2201/434** (2013.01 - EP); **E05Y 2201/604** (2013.01 - EP); **E05Y 2201/608** (2013.01 - EP); **E05Y 2201/638** (2013.01 - EP); **E05Y 2201/64** (2013.01 - EP); **E05Y 2201/686** (2013.01 - EP); **E05Y 2201/708** (2013.01 - EP); **E05Y 2800/102** (2013.01 - EP); **E05Y 2900/51** (2013.01 - EP)

## Citation (applicant)

- FR 1358198 A 19640410 - VERKEHRSMITTEL ENTWICKLUNG
- GB 2118667 A 19831102 - FAIVELEY ETS
- GB 2283054 A 19950426 - IFE GMBH [AT]
- AT 186232 B 19560725 - DEGUSSA [DE]
- DE 2003857 C3 19740926
- DE 3630229 C2 19901206
- ES 553584 A0 19870216 - BODE & CO GEB [DE]
- EP 0320591 A2 19890621 - BODE & CO GEB [DE]
- EP 0517334 A1 19921209 - TBL BEHEER BV [NL]
- EP 0673464 A1 19950927 - IFE GMBH [AT]
- EP 0820889 A1 19980128 - SAB WABCO B V [NL]
- EP 0837209 A2 19980422 - IFE GMBH [AT]

## Cited by

CN104047490A; CN111706196A; CN103046827A; US9009918B2

## 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

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**EP 2325424 A2 20110525**; **EP 2325424 A3 20130320**; **EP 2325424 B1 20160127**; ES 2390717 A1 20121115; ES 2390717 B1 20131003; ES 2567804 T3 20160426; PL 2325424 T3 20160729

## DOCDB simple family (application)

**EP 10382297 A 20101112**; ES 10382297 T 20101112; ES 200902219 A 20091124; PL 10382297 T 20101112