

Title (en)

RELAY MECHANISM OF VEHICLE SLIDING DOOR

Title (de)

RELAISMECHANISMUS FÜR FAHRZEUGSCHIEBETÜR

Title (fr)

MÉCANISME DE RELAIS DE PORTE COULISSANTE DE VÉHICULE

Publication

EP 3029230 A1 20160608 (EN)

Application

EP 15196970 A 20151130

Priority

JP 2014245405 A 20141203

Abstract (en)

A relay mechanism (18) of a vehicle sliding door (10), includes: an outer open lever (21) configured to be coupled with an outer open handle (12) of a sliding door (10) and to release latch units (15, 17) to open the sliding door (10) when the outer open lever (21) is operated; an inner open lever mechanism (35) configured to be coupled with an inner open handle (13) of the sliding door (10) and to release the latch units (15, 17) to open the sliding door (10) when the inner open lever mechanism (35) is operated; an outer lock lever (31) configured to disable the release of the latch units (15, 17) by the operation of the outer open lever (21); and an inner lock lever (43) configured to disable the release of the latch units (15, 17) by the operation of the inner open lever mechanism (35).

IPC 8 full level

E05B 77/24 (2014.01); **E05B 77/28** (2014.01); **E05B 77/30** (2014.01); **E05B 83/40** (2014.01)

CPC (source: EP)

E05B 77/245 (2013.01); **E05B 77/28** (2013.01); **E05B 77/30** (2013.01); **E05B 83/40** (2013.01)

Citation (applicant)

- JP 2009030362 A 20090212 - MITSUI MINING & SMELTING CO
- JP 2009030363 A 20090212 - MITSUI MINING & SMELTING CO
- JP H0874455 A 19960319 - MITSUI MINING & SMELTING CO
- JP 2000345751 A 20001212 - MITSUI MINING & SMELTING CO

Citation (search report)

- [XA] WO 0079079 A1 20001228 - ATOMA INT CORP [CA]
- [X] WO 9833998 A1 19980806 - ATOMA INT CORP [CA]
- [X] US 5676003 A 19971014 - URSEL ECKHARD [DE], et al
- [XA] EP 1059407 A2 20001213 - DELPHI TECH INC [US]

Cited by

US11401739B2

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 3029230 A1 20160608; EP 3029230 B1 20191023; JP 2016108777 A 20160620; JP 6450992 B2 20190116

DOCDB simple family (application)

EP 15196970 A 20151130; JP 2014245405 A 20141203