

Title (en)  
PLUG DOOR APPARATUS

Title (de)  
DREHSCHWENKTÜR

Title (fr)  
DISPOSITIF DE PORTE ENCASTRÉE

Publication  
**EP 2348181 A1 20110727 (EN)**

Application  
**EP 09820517 A 20090925**

Priority  
• JP 2009066616 W 20090925  
• JP 2008268910 A 20081017  
• JP 2008268911 A 20081017

Abstract (en)  
A plug door apparatus (1) includes a fixed base (2) fixed to the main body of a vehicle, a slide base (3) provided on the fixed base (2) to be movable in vehicle width directions, a door driver (4) provided in the slide base (3), axis components (5a, 5b) provided at connecting members connecting the door driver (4) with the doors (104a, 104b), and guide portions (6a, 6b) which are rotatably provided on the fixed base (2) to guide the axis components (5a, 5b). When the doors are opened or closed, the guide portions (6a, 6b) contact the axis components (5a, 5b) to guide the axis components (5a, 5b) to move them in a vehicle width direction.

IPC 8 full level  
**E05D 15/10** (2006.01); **B61D 19/00** (2006.01); **B61D 19/02** (2006.01); **E05F 11/53** (2006.01); **E05F 17/00** (2006.01)

CPC (source: EP KR US)  
**B61D 19/009** (2013.01 - EP); **B61D 19/02** (2013.01 - EP KR); **E05D 15/10** (2013.01 - KR); **E05D 15/1042** (2013.01 - US); **E05D 15/1044** (2013.01 - EP); **E05F 11/53** (2013.01 - KR); **E05F 15/632** (2015.01 - EP KR US); **E05F 15/635** (2015.01 - EP US); **E05F 15/655** (2015.01 - EP US); **E05F 17/004** (2013.01 - EP US); **E05D 2015/1055** (2013.01 - EP US); **E05F 15/652** (2015.01 - EP); **E05Y 2201/22** (2013.01 - EP US); **E05Y 2201/24** (2013.01 - EP); **E05Y 2900/51** (2013.01 - EP)

Cited by  
CN105275303A; EP3888999A1; EP2752545A3; EP3225494A1; EP4001562A1; CN114482760A; US10449976B2; US10458166B2; WO2017118699A1; US9316030B2; US9403422B2; US9797171B2

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2348181 A1 20110727**; **EP 2348181 A4 20131204**; **EP 2348181 B1 20151028**; CN 102187042 A 20110914; CN 102187042 B 20140514; HK 1158720 A1 20120720; KR 101264978 B1 20130515; KR 20110065558 A 20110615; TW 201026530 A 20100716; TW I388441 B 20130311; WO 2010044339 A1 20100422

DOCDB simple family (application)  
**EP 09820517 A 20090925**; CN 200980141227 A 20090925; HK 11113298 A 20111208; JP 2009066616 W 20090925; KR 20117010192 A 20090925; TW 98133969 A 20091007