

Title (en)

Railway vehicle with sliding doors

Title (de)

Schienenfahrzeug mit Schiebetüren

Title (fr)

Véhicule ferroviaire avec portes coulissantes

Publication

**EP 2371653 A3 20130410 (EN)**

Application

**EP 10251350 A 20100729**

Priority

JP 2010082760 A 20100331

Abstract (en)

[origin: EP2371653A2] The invention provides an externally suspended side sliding door device of a railway vehicle, having improved the reliability of a door suspension device supporting side sliding doors in suspended manner and moving in rolling motion along an upper door rail for guiding side sliding doors, and facilitated the maintenance operation thereof. A weather strip member (200a) is disposed at a lower end portion of an external cover (22) on the side facing a side sliding door (100a), and a weather strip member (210a) is disposed at an upper end portion of the side sliding door (100a) on the side of the external cover (22) opposing to the weather strip member (200a). The weather strip members (200a,210a) are integrated when the side sliding door is closed, sealing the gap formed between the lower end portion of the external cover (22) and the upper end portion of the side sliding door, thereby enhancing the water-resisting property and the dust-resisting property of the upper door rail (130) and the door suspension device (140) moving in rolling motion on the upper door rail (130) and supporting the side sliding door in a suspended manner. The side sliding door is guided along a groove-shaped lower door rail embedded in a door step via a tongue portion suspended from a lower portion of the side sliding door.

IPC 8 full level

**B61D 19/00** (2006.01); **B61D 19/02** (2006.01)

CPC (source: EP)

**B61D 19/005** (2013.01); **B61D 19/02** (2013.01)

Citation (search report)

- [X] US 4150509 A 19790424 - KNAP JOSEPH [CA]
- [X] US 5927015 A 19990727 - GHOSN MICHEL [CA], et al
- [X] FR 1560074 A 19690314
- [I] WO 2007014736 A2 20070208 - KNORR BREMSE GMBH [AT], et al
- [A] DE 202008004592 U1 20090813 - BODE GMBH & CO KG [DE]

Cited by

CN103935374A; CN107878486A; CN104786786A; CN106394577A; RU176959U1; CN109278778A; EP3150414A1; CN107054025A; RU2718200C2; TWI461323B

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2371653 A2 20111005; EP 2371653 A3 20130410; EP 2371653 B1 20170719; JP 2011213226 A 20111027**

DOCDB simple family (application)

**EP 10251350 A 20100729; JP 2010082760 A 20100331**