

Title (en)

RAIL VEHICLE AND RAIL VEHICLE VENTILATION DEVICE THEREFOR

Title (de)

SCHIENENFAHRZEUG UND BELÜFTUNGSVORRICHTUNG FÜR SCHIENENFAHRZEUG

Title (fr)

VÉHICULE FERROVIAIRE ET DISPOSITIF DE VENTILATION DE VÉHICULE FERROVIAIRE POUR CELUI-CI

Publication

EP 3808627 A1 20210421 (EN)

Application

EP 19880513 A 20190705

Priority

- CN 201811277387 A 20181030
- CN 2019094837 W 20190705

Abstract (en)

Disclosed is a rail vehicle ventilation device, comprising an air inlet drum. Two side faces of the air inlet drum are provided with a first air port (1) and a second air port (9), a top portion of the air inlet drum is provided with a top air port (10), and a bottom portion of the air inlet drum is provided with an air outlet (11), wherein the first air port is arranged opposite the second air port, and in a free state, the top air port, the first air port, the second air port and the air outlet communicate with one another. A first flow guide plate (3), a second flow guide plate (7), and a connecting rod (4) hinged between the first flow guide plate and the second flow guide plate are arranged in the air inlet drum, wherein a top portion of the first flow guide plate is hinged to a position, located above the first air port, on the air inlet drum; a top portion of the second flow guide plate is hinged to a position, located above the second air port, on the air inlet drum; the first flow guide plate and the second flow guide plate constitute a trapezoid connecting rod structure by means of the connecting rod, and an upper end of the connecting rod structure is a large-diameter end; and the second flow guide plate can swing to a state where the second air port is sealed. Further disclosed is a rail vehicle comprising the ventilation device. According to the ventilation device, the angle between a flow guide plate and a corresponding air port is automatically adjusted according to a change in vehicle speed, and a ventilation quantity can be ensured when a vehicle operates at a high speed.

IPC 8 full level

B61D 27/00 (2006.01)

CPC (source: CN EP)

B61D 17/12 (2013.01 - EP); **B61D 27/009** (2013.01 - CN EP)

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 3808627 A1 20210421; **EP 3808627 A4 20220302**; **EP 3808627 B1 20221123**; CN 109398393 A 20190301; CN 109398393 B 20200623; RS 63959 B1 20230228; WO 2020087965 A1 20200507

DOCDB simple family (application)

EP 19880513 A 20190705; CN 201811277387 A 20181030; CN 2019094837 W 20190705; RS P20230109 A 20190705