

Title (en)
Air distribution box and associated rail vehicle

Title (de)
Luftverteilerkasten und zugehöriges Schienenfahrzeug

Title (fr)
Boîte de distribution d'air et véhicule ferroviaire associé

Publication
EP 2977288 A1 20160127 (EN)

Application
EP 14178247 A 20140724

Priority
EP 14178247 A 20140724

Abstract (en)
An air distribution box (24) for directing supply air from an HVAC unit (14) located outside a car body (12) of a rail vehicle to a passenger area (26) inside the car body (12) and for directing return air from the passenger area (26) to the HVAC unit (14) has at least a top wall (30), a bottom wall (32), front, rear and side walls (34, 36, 38, 40). The air distribution box (24) is provided with one or more return air ducts (50) extending between one or more return inlets (52, 54) through at least one of the front, rear and side walls (34, 36, 38, 40) and one or more return outlets (48) through the top wall (30), one or more supply inlets (46) through the top wall (30) and one or more supply outlets (56, 58) through at least one of the front, rear and side walls (34, 36, 38, 40). The top wall (30), bottom wall (32), front, rear and side walls (34, 36, 38, 40) define a supply air path inside the air distribution box (24) between the one or more supply inlets (46) and the one or more supply outlets (56, 58).

IPC 8 full level
B61D 27/00 (2006.01); **B60H 1/00** (2006.01)

CPC (source: EP)
B61D 27/0018 (2013.01)

Citation (applicant)
KR 100791448 B1 20080103 - SEOBUN INDUSTRY ENGINEERING CO [KR]

Citation (search report)
• [A] DE 102011009578 A1 20120802 - BOMBARDIER TRANSP GMBH [DE]
• [AD] KR 100791448 B1 20080103 - SEOBUN INDUSTRY ENGINEERING CO [KR]
• [A] JP 2001138910 A 20010522 - MITSUBISHI ELECTRIC CORP
• [A] JP 2014077563 A 20140501 - MITSUBISHI ELECTRIC CORP

Cited by
CN109720366A; EP4328109A1; JP2017217928A; WO2024042209A1

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

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BA ME

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