

Title (en)

AIR DIFFUSER FOR AIR-CONDITIONING SYSTEM FOR THE COMPARTMENTS OF RAILWAY CARRIAGE

Publication

**EP 0239548 A3 19871216 (EN)**

Application

**EP 87830112 A 19870323**

Priority

IT 6723686 A 19860325

Abstract (en)

[origin: EP0239548A2] Air is fed to compartments by a longitudinal two-part duct running the full length of the car. The primary part (3) of this duct carrying hot or cold air is of L-shaped cross-section with the hot air carrying secondary part (4) lying in the corner recess of the primary L-shape. In each compartment, an air diffuser (5) is connected to the duct sections (3 and 4). A mixing chamber (21) is connected directly and permanently with the primary duct (3) and with the secondary duct (4) with an electromagnet (13) actuating the obturator (41). Ambient air from the compartment also enters the mixing chamber (21) through the front vents (45) and mixed air exits into the compartment via the top grille (9). A control unit is arranged to control the electromagnet (13) in a variable duty cycle to vary correspondingly the quantity of hot air taken from the secondary duct (4).

IPC 1-7

**B61D 27/00**; **B60H 1/00**

IPC 8 full level

**B61D 27/00** (2006.01)

CPC (source: EP)

**B61D 27/0018** (2013.01)

Citation (search report)

- [Y] GB 1181270 A 19700211 - FRIEDMANN KG ALEX [AT]
- [Y] DE 1954300 A1 19710527 - HAGENUK NEUFELDT KUHNKE GMBH
- [A] FR 2307687 A1 19761112 - BBC BROWN BOVERI & CIE [CH]
- [A] CH 429813 A 19670215 - BBC BROWN BOVERI & CIE [CH]
- [A] FR 2175453 A5 19731019 - FRIEDMANN KG ALEX [AT]
- [A] FR 2461606 A1 19810206 - AIR IND
- [A] US 3763761 A 19731009 - ANDERSON G, et al

Cited by

US6776451B2; CN103273935A; AT395136B; EP1300314A1; FR2830503A1; US2014248827A1; EP3144225A1; EP0347300A1; FR2632593A1; US4935599A; US6561893B2; WO2014137515A1

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