

Title (en)

Cooling braking resistors of a track bound vehicle

Title (de)

Abkühlen von Bremswiderständen eines schienengebundenen Fahrzeugs

Title (fr)

Résistances de frein de refroidissement d'un véhicule relié à des rails

Publication

EP 2308735 A1 20110413 (EN)

Application

EP 09012623 A 20091006

Priority

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Abstract (en)

The invention relates to an arrangement for cooling braking resistors (9; 19) by ventilating air, wherein the braking resistors (9; 19) are adapted to dissipate electric energy caused by braking a track bound vehicle, in particular a rail vehicle, into heat, wherein the arrangement comprises: - a radial fan (7; 17), - a plurality of braking resistors (9; 19) to be cooled, characterised in that - the fan (7; 17) is a radial fan (7; 17) adapted to deflect the air in different directions transverse to a rotating axis of the fan (7; 17), - the plurality of braking resistors (9; 19) are arranged in at least some of the different directions, - the rotating axis of the fan (7; 17) extends from top to bottom, or vice versa, so that, during operation of the arrangement, the cool air is guided from top to bottom to the fan (7; 17) and is deflected by the fan (7; 17) towards the plurality of the braking resistors (9; 19).

IPC 8 full level

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Citation (applicant)

US 4840221 A 19890620 - DUMAS JEAN-CLAUDE [FR], et al

Citation (search report)

- [AD] US 4840221 A 19890620 - DUMAS JEAN-CLAUDE [FR], et al
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- [A] EP 0919705 A2 19990602 - SIEMENS CANADA LTD [CA]
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- [A] EP 2078655 A1 20090715 - ALSTOM TRANSPORT SA [FR]

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