

Title (en)

VEHICLE FRONT-END FOR MOUNTING TO THE FRONT FACE OF A TRACK-BOUND VEHICLE, IN PARTICULAR A RAIL VEHICLE

Title (de)

FAHRZEUGKOPF ZUR BEFESTIGUNG AN DER STIRNSEITE EINES SPURGEBUNDENEN FAHRZEUGES, INSBESONDERE EINES SCHIENENFAHRZEUGES

Title (fr)

TÊTE DE VÉHICULE À FIXER SUR LA FACE FRONTALE D'UN VÉHICULE GUIDÉ SUR RAILS, EN PARTICULIER D'UN VÉHICULE FERROVIAIRE

Publication

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Application

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Abstract (en)

[origin: WO2010029188A1] The invention relates to a vehicle front-end with a vehicle front-end structure (100) for mounting to the front face of a track-bound vehicle, in particular a rail vehicle, wherein the vehicle front-end structure (100) is completely made of structural elements of fibre composite material or sandwich structures of fibre composite material. The structural elements forming the vehicle front-end structure (100) comprise first structural elements (10, 10', 11, 12, 12', 14, 15, 16) which are directly connected to each other and configured in such a manner that a deformation-resistant, self-supporting head structure is formed for receiving a vehicle driver's stand (101). The structural elements forming the vehicle front-end structure (100) further comprise second structural elements (20, 20', 21, 21', 22, 22', 23, 24, 24') which are connected to the first structural elements (10, 10', 11, 12, 12', 14, 15, 16) and are configured in such a manner that at least a part of the impact energy (collision energy), which is generated in the event of a collision of the track-bound vehicle due to a transmission of impact forces and is introduced into the structure (100), is absorbed by at least a partial irreversible deformation or at least a partial destruction of the second structural elements (20, 20', 21, 21', 22, 22', 23, 24, 24').

IPC 8 full level

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Cited by

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