

Title (en)
ELECTRIC ENGINE BRAKING DEVICE

Title (de)
BRECHVORRICHTUNG FÜR EINEN ELEKTROMOTOR

Title (fr)
DISPOSITIF DE FREINAGE DE MOTEUR ÉLECTRIQUE

Publication
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Application
EP 19908081 A 20190829

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Abstract (en)
An electric engine braking device comprises a control mechanism (8) and an electric driving mechanism (9), wherein the control mechanism (8) comprises a housing (81), an execution plunger (82) and a sliding assembly; the sliding assembly comprises a sliding block (83), a first elastic piece (84), a transfer plunger (85) and a second elastic piece (86); the transfer plunger (85) comprises a first position which is completely provided in the sliding block (83) and a second position which extends out of the sliding block (83) to connect the sliding block (83) and the housing (81) into a whole; and the electric driving mechanism (9) comprises an execution motor (91), a sliding plate frame (92), a sliding plate (93) and a contact leaf spring (94), the execution motor (91) can push the sliding plate (93) to slide along the sliding plate frame (92), drive the contact leaf spring (94) to push the execution plunger (82) to slide, and drive the transfer plunger (85) to move and keep the transfer plunger at the second position. The invention has the advantages that the electric driving mechanism (9) and the control mechanism (8) are provided, and the action is controlled by an execution motor (91) to replace the existing engine oil used as a working or driving control medium. The reliability risk caused by the engine oil is eliminated, the engine braking use area is increased, the engine braking entry and exit time is reduced, the fuel consumption is reduced, and the engine braking performance grading is more refined.

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