

Title (en)
ELECTROMOTIVE DRIVE UNIT FOR MOTOR VEHICLE APPLICATIONS

Title (de)
ELEKTROMOTORISCHE ANTRIEBSEINHEIT FÜR KRAFTFAHRZEUG-TECHNISCHE ANWENDUNGEN

Title (fr)
UNITÉ D'ENTRAÎNEMENT ÉLECTROMOTRICE POUR APPLICATIONS DE VÉHICULE AUTOMOBILE

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Abstract (en)
[origin: WO2022171233A1] The invention relates to an electromotive drive unit for motor vehicle applications, said drive unit being equipped with an electric motor (4) comprising an output shaft (5), which has a substantially circular cross-section, and a drive element (6), which is preferably made of plastic and is assembled on the output shaft (5). The output shaft (5) engages into a receiving bore (9) of the drive element (6), thereby defining at least one ventilation bore (10). According to the invention, one variant of the output shaft (5) has two mutually spaced webs (11) which extend axially in the manner of a chord at least in the engagement region (E) of the receiving bore (9). A protrusion (13) of the drive element (6) engages between the webs (11) in order to produce a rotary coupling. Each of the two webs (11) additionally describes a respective ventilation bore (10) on the outer edge.

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