

Title (en)

ELECTRIC MOTOR-WHEEL WITH A ROTOR HAVING A HOUSING ENABLING AN EFFICIENT EXCHANGE OF HEAT

Title (de)

ROTOR MIT GEHAEUSE ZUM VERBESSERTEN WAERMEAUSTAUSCH FUER ANTRIEBSRAD MIT ELEKTROMOTOR

Title (fr)

MOTEUR-ROUE ELECTRIQUE AYANT UN ROTOR MUNI D'UN BOITIER PERMETTANT UN ECHANGE EFFICACE DE CHALEUR

Publication

EP 0729664 A1 19960904 (FR)

Application

EP 94900693 A 19931206

Priority

CA 9300523 W 19931206

Abstract (en)

[origin: WO9516300A1] An electric motor-wheel including a hollow shaft capable of receiving leads from outside the motor-wheel, a stator coaxial with and fastened to the shaft, and a rotor coaxial with and rotatable about the stator. The rotor includes a housing with a cylindrical wall having an inner surface provided with a magnetic assembly arranged around the stator and separated therefrom by an air gap, and the housing includes an inner wall on one side of the cylindrical wall, and an outer wall on the other side of the cylindrical wall. The shaft extends through a central portion of the inner wall, and the outer housing wall includes alternately convex and concave sections extending in the circumferential direction thereof so that during rotation of the rotor, air is circulated within said housing by the convex sections, and along outer portions of the concave sections to enable an efficient exchange of heat through the outer wall.

IPC 1-7

H02K 7/14; **B60K 7/00**

IPC 8 full level

B60B 3/00 (2006.01); **B60K 7/00** (2006.01); **B60L 11/18** (2006.01); **H02K 7/14** (2006.01); **H02K 9/00** (2006.01); **H02K 9/02** (2006.01); **H02K 9/22** (2006.01)

IPC 8 main group level

B60K (2006.01); **H02K** (2006.01)

CPC (source: EP KR)

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Citation (search report)

See references of WO 9516300A1

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