

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)

**B60K 7/00** (2013.01 - KR); **B60K 7/0007** (2013.01 - EP); **B60L 3/0061** (2013.01 - EP); **B60L 15/2009** (2013.01 - EP); **H02K 7/14** (2013.01 - KR); **B60G 2200/144** (2013.01 - EP); **B60G 2200/44** (2013.01 - EP); **B60G 2204/202** (2013.01 - EP); **B60G 2206/50** (2013.01 - EP); **B60K 2001/003** (2013.01 - EP); **B60K 2007/0038** (2013.01 - EP); **B60K 2007/0092** (2013.01 - EP); **B60L 2210/40** (2013.01 - EP); **B60L 2220/44** (2013.01 - EP); **B60L 2240/36** (2013.01 - EP); **B60L 2240/421** (2013.01 - EP); **Y02T 10/64** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP)

Citation (search report)

See references of WO 9516300A1

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