

Title (en)
ROTOR STRUCTURE OF MOTOR HAVING PERMANENT MAGNET.

Title (de)
ROTOR EINES MOTORS MIT DAUERMAGNET.

Title (fr)
ROTOR DE MOTEUR A AIMANT PERMANENT.

Publication
EP 0303703 A4 19890621 (EN)

Application
EP 88901645 A 19880216

Priority
JP 3156087 A 19870216

Abstract (en)
[origin: WO8806374A1] Rotor structure of a motor. Yokes (13) each equipped with a permanent magnet (14) fixed to its outer circumference are disposed and fixed around the outer circumference of a rotor core (12) with predetermined gaps between them in such a manner as to form recesses (20) between the yokes (13). The air layer of this recess (20) act as a large magnetic resistance to a main path (24) of the magnetic flux generated from the side of a stator (30). Therefore, the drop in permeability (μ (m)) of each of the rotor core (12), the yoke (13) and the stator core (36) can be restricted and the output torque of the motor can be increased while minimizing the magnetic resistance in the main path (22) of the main magnetic flux generated from the permanent magnet (14).

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H02K 21/08

IPC 8 full level
B30B 15/30 (2006.01); **B65H 7/12** (2006.01); **H02K 1/27** (2006.01)

CPC (source: EP KR US)
B30B 15/30 (2013.01 - KR); **B65H 7/12** (2013.01 - EP KR US)

Citation (search report)

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- [X] DE 1060028 B 19590625 - ERNST MASSAR DR ING
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- [A] EP 0193611 A1 19860910 - FANUC LTD [JP]
- See references of WO 8806374A1

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CN107482804A

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DE FR GB

DOCDB simple family (publication)
WO 8806374 A1 19880825; EP 0303703 A1 19890222; EP 0303703 A4 19890621; JP S63202247 A 19880822; KR 880701178 A 19880726; KR 930007668 B1 19930818

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