

Title (en)
MAGNETIC FRICTION CLUTCH

Title (de)
MAGNETISCHE REIBKUPPLUNG

Title (fr)
EMBRAYAGE A FRICTION MAGNETIQUE

Publication
EP 1891348 A1 20080227 (DE)

Application
EP 06722833 A 20060504

Priority
• DE 2006000774 W 20060504
• DE 102005025268 A 20050602

Abstract (en)
[origin: WO2006128415A1] The invention relates to a magnetic friction clutch with two clutch pieces (2, 3), mounted to rotate relative to each other about a rotation axis. The second clutch piece has several soft magnetic annular zones (20a, 20b) subjected to the magnetic flux, running in the circumferential direction and separated from each other in the radial direction by circumferential slots. Annular zones adjacent to each other in the radial direction are connected to each other by webs. The slots are filled with a solidified cast mass (25) connecting the annular zones together. Facing inner and/or outer circumferential surfaces of the annular zones follow a line deviating from a circle concentric to the rotation axis. The second clutch piece can comprise several layers (22, 23) of differing soft-magnetic materials.

IPC 8 full level
F16D 27/112 (2006.01); **F16D 27/14** (2006.01)

CPC (source: EP US)
F16D 27/112 (2013.01 - EP US); **F16D 27/14** (2013.01 - EP US); **F16D 2027/008** (2013.01 - EP US)

Citation (search report)
See references of WO 2006128415A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006128415 A1 20061207; DE 112006002105 A5 20080508; DE 202006020686 U1 20090702; EP 1891348 A1 20080227; US 2008149449 A1 20080626; US 7556134 B2 20090707

DOCDB simple family (application)
DE 2006000774 W 20060504; DE 112006002105 T 20060504; DE 202006020686 U 20060504; EP 06722833 A 20060504; US 99888507 A 20071203