

Title (en)
Improved magnetic drive pump

Title (de)
Verbesserte Pumpe mit Magnetantrieb

Title (fr)
Pompe à commande magnétique améliorée

Publication
EP 1840380 A2 20071003 (EN)

Application
EP 07006477 A 20070329

Priority
IT BS20060079 A 20060330

Abstract (en)
An improved magnetic drive pump especially usable for moving and circulating cooling fluids in internal combustion engines, comprising an impeller (12) keyed at the bottom end of a shaped pin (14, 14A, 14B) turnably arranged relative to an annular body (18), a "cup" body (30, 30A, 30B) constrained to the top end of said shaped pin (14, 14A, 14B), a partition (40) attached by a threaded connection or other known type to a container body (28) obtained by fusion of aluminium or other suitable material, a further "cup" body (52) keyed to the bottom end of a shaft (48) on the top end whereof a pulley (46) is keyed, said pump further comprising means for supporting the rotation of the impeller (12), magnetic means respectively arranged on the outer surface of the "cup" body (30, 30A, 30B) and on the inner surface of the further "cup" body (52) and separated by the partition (40) and means for compensating or reducing the radial and axial mechanical stresses on the partition (40).

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