

Title (en)

ROTOR FOR VANE PUMP AND MOTOR.

Title (de)

ROTOR FÜR FLÜGELPUMPE UND MOTOR.

Title (fr)

ROTOR POUR POMPE ROTATIVE A AILETTES ET MOTEUR.

Publication

EP 0169904 A4 19851017 (EN)

Application

EP 84900881 A 19840222

Priority

- JP 2861183 A 19830224
- JP 12875583 A 19830716
- JP 12875683 A 19830716

Abstract (en)

[origin: WO8403329A1] A rotor (10) for a vane pump and motor comprises a hollow rotor body (12), end plates (13, 14) welded to both end surfaces thereof, and a rotating shaft (11) secured to the end plates. If required, a heat pipe working fluid could be sealed within the rotating shaft (11) or the rotor body (12). The rotor (10) provided with the rotor body (12), the rotating shaft (11) and the end plates (13, 14) is made of a composite material prepared by mixing whiskers into a matrix metal, and has a sufficiently high strength even if the wall thicknesses are further reduced, so that it is possible to obtain an extremely lightweight rotor.

IPC 1-7

F01C 1/344; F04C 2/344; F04C 18/344

IPC 8 full level

F01C 21/08 (2006.01)

CPC (source: EP)

F01C 21/08 (2013.01)

Citation (search report)

- US 3552895 A 19710105 - BAYLEY EUGENE S
- DE 307756 C

Cited by

EP0627556A1; EP0477601A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8403329 A1 19840830; EP 0169904 A1 19860205; EP 0169904 A4 19851017

DOCDB simple family (application)

JP 8400061 W 19840222; EP 84900881 A 19840222