

Title (en)

Method of manufacturing vacuum pump rotors, and rotors obtained thereby

Title (de)

Verfahren zur Herstellung eines Drehkolbens für eine Vakuumpumpe und nach diesem Verfahren hergestellter Drehkolben

Title (fr)

Procedé de fabrication d'un rotor de pompe à vide et rotor ainsi obtenu

Publication

**EP 1402975 A1 20040331 (EN)**

Application

**EP 03017613 A 20030811**

Priority

IT TO20020770 A 20020906

Abstract (en)

The method involves obtaining one or more sets of radial peripheral vanes on a cylindrical billet (11). The cylindrical billet is obtained through an axial compression (P1) by forging. A cavity (13) extending over a part of the billet is formed using a punch (12) that is forced into the cylindrical billet. The billet is bored and is then submitted to heat treatment. An independent claim is also included for a rotor for a turbine pump.

IPC 1-7

**B21K 1/36**; **B21K 3/04**; **F04D 19/04**

IPC 8 full level

**B21K 1/36** (2006.01); **B21K 3/04** (2006.01); **F04D 19/04** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP US)

**B21K 1/36** (2013.01 - EP US); **B21K 3/04** (2013.01 - EP US); **F04D 19/042** (2013.01 - EP US)

Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12 3 January 2001 (2001-01-03)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0070, no. 79 (M - 204) 31 March 1983 (1983-03-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0143, no. 75 (M - 1010) 14 August 1990 (1990-08-14)

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