

Title (en)  
Vane-type fluid machine

Title (de)  
Drehkolbenflügelzellenmaschine

Title (fr)  
Machine rotative à fluide du type à palettes

Publication  
**EP 0933532 A3 20000920 (EN)**

Application  
**EP 99101550 A 19990201**

Priority

- JP 5877398 A 19980202
- JP 22513098 A 19980702
- JP 26388998 A 19980812
- JP 29599098 A 19980909
- JP 34095998 A 19981023

Abstract (en)  
[origin: EP0933532A2] A vane-type fluid machine capable of mechanically moving a vane and of producing a high compression ratio is provided, which includes: a casing having a contacting-surface circular arc on an inner periphery thereof; a rotor eccentrically fitted in the casing with a predetermined eccentricity, having a diameter to form a sealing surface with respect to the contacting-surface circular arc for keeping seal between a suction side and a discharge side and the rotor, and having a rotor discharging groove on an outer surface thereof; a vane slidably inserted in a rotor groove formed on the rotor; and a drive shaft inserted in a boss portion of the rotor concentrically with the rotor, wherein, with rotation of the rotor, fluid is sucked into a space formed in the casing and simultaneously fluid in another space formed in the casing is compressed, while being discharged from a discharge hole provided on the contacting-surface circular arc through the rotor discharging groove. <IMAGE>

IPC 1-7  
**F04C 18/344**

IPC 8 full level  
**F01C 21/10** (2006.01); **F04C 18/344** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP KR)  
**F01C 21/106** (2013.01 - EP); **F04C 18/30** (2013.01 - KR); **F04C 18/3441** (2013.01 - EP); **F04C 29/12** (2013.01 - EP);  
**F04C 2250/301** (2013.01 - EP)

Citation (search report)

- [X] FR 2175295 A5 19731019 - REICH FA WILHELM [DE]
- [X] EP 0359139 A2 19900321 - BARMAG BARMER MASCHF [DE]
- [X] FR 552920 A 19230509
- [X] DE 2460949 A1 19750710 - MIELITZ GUSTAV BERNARD
- [X] US 1781073 A 19301111 - HOLGER NIELSEN
- [X] PATENT ABSTRACTS OF JAPAN vol. 6, no. 83 (M - 130)<961> 21 May 1982 (1982-05-21)

Cited by  
CN100396928C; CN103422981A; DE102005015721B3; CN105090019A; CN106536855A; DE102015213099B3; CN106640648A;  
DE102004034922A1; DE102004034922B4; US7588432B2; DE102004034920B3; CN100376796C; US7393090B2; EP1582745A3; EP2587064A1;  
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