

Title (en)
Magnetic drive pump

Title (de)
Magnetpumpe

Title (fr)
Pompe à entraînement magnétique

Publication
EP 0664400 B1 19990317 (DE)

Application
EP 94118999 A 19941201

Priority
• DE 4343854 A 19931222
• US 48891095 A 19950609

Abstract (en)
[origin: US5580216A] A magnetic pump is provided which is especially useful for pumping corrosive agents, having simplified components made of a hard ceramic, preferably silicon carbide, which form ceramic-on-ceramic axial and radial bearing surfaces. The pump has an impeller and magnetic rotor, each being mounted on an opposite end of a ceramic shaft by a respective ceramic bush. The shaft rides in ceramic first and second plain bearing bushes, each of which forms a radial bearing surface and an axial bearing journal end face. The ceramic impeller bush is secured to the shaft by a form fit and provides an axial bearing surface against the first bearing bush end face. Similarly, the ceramic rotor bush is secured to the shaft by a form fit and forms an axial bearing surface against the end face of the second plain bush.

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F04D 29/04; F04D 13/02

IPC 8 full level
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CPC (source: EP US)
F04D 13/026 (2013.01 - EP US); **F04D 29/0413** (2013.01 - EP US); **F04D 29/043** (2013.01 - EP US); **F04D 29/0465** (2013.01 - EP US); **F04D 29/047** (2013.01 - EP US); **F05C 2203/0813** (2013.01 - EP US)

Cited by
FR2909169A1; DE10240800A1; DE10240800B4; US8076932B2; WO2008081092A3

Designated contracting state (EPC)
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