

Title (en)

MAGNETIC PULSE PUMP/COMPRESSOR SYSTEM

Title (de)

MAGNETISCHES IMPULSPUMP-/VERDICHUNGSSYSTEM

Title (fr)

SYSTEME DE POMPE/COMPRESSEUR A IMPULSIONS MAGNETIQUES

Publication

EP 1828605 A1 20070905 (EN)

Application

EP 05853576 A 20051209

Priority

- US 2005044694 W 20051209
- US 980204 A 20041210

Abstract (en)

[origin: WO2006063267A1] A magnetic pump system includes a ring shaped electric magnet that when pulsed with high voltage and high current, causes a magnetically deflectable elastic member to collapse over a mandrill with an arcuate outer surface. The volume between the arcuate outer surface and the inside of the elastic member is reduced causing compression and expulsion of the fluid therein through a discharge of a one-way passage system. When the magnetic field subsides, the elastic member regains its shape drawing fluid in through an inlet to the one-way passage system.

IPC 8 full level

F04B 43/09 (2006.01); **F04B 45/067** (2006.01)

CPC (source: EP US)

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Citation (search report)

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