

Title (en)  
ELECTROMAGNETIC VALVE

Title (de)  
ELEKTROMAGNETISCH BETÄTIGBARES VENTIL

Title (fr)  
SOUPAPE A COMMANDE ELECTROMAGNETIQUE

Publication  
**EP 0683862 B1 19980610 (DE)**

Application  
**EP 95900661 A 19941124**

Priority  
• DE 9401392 W 19941124  
• DE 4341961 A 19931209  
• DE 4421935 A 19940623

Abstract (en)  
[origin: US5732888A] PCT No. PCT/DE94/01392 Sec. 371 Date Aug. 9, 1995 Sec. 102(e) Date Aug. 9, 1995 PCT Filed Nov. 24, 1994 PCT Pub. No. WO95/16126 PCT Pub. Date Jun. 15, 1995An electromagnetically operable valve includes at least one component part, e.g. the armature, which possesses, prior to the application of a wear resistant coating, a wedged surface, which is in each case variably creatable in accordance with a magnetic and hydraulic optimum. The annular impact segment formed by the wedging possesses a defined impact face width or contact width which remains constant throughout the service life, since any wearing of the impact face does not lead, in continuous running, to an enlargement of the contact. The valve is particularly suitable for use in fuel injection systems of explosion-type, spark-ignition combustion engines.

IPC 1-7  
**F02M 51/06**

IPC 8 full level  
**B23K 9/04** (2006.01); **B23K 10/02** (2006.01); **F02M 51/06** (2006.01); **F02M 51/08** (2006.01); **F02M 61/16** (2006.01); **F16K 31/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)  
**F02M 51/0614** (2013.01 - EP US); **F02M 51/0625** (2013.01 - EP US); **F02M 51/0664** (2013.01 - EP US); **F02M 51/0682** (2013.01 - EP US); **F02M 61/166** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 2200/02** (2013.01 - EP US); **F02M 2200/505** (2013.01 - EP US); **F02M 2200/9038** (2013.01 - EP US); **F02M 2200/9061** (2013.01 - EP US)

Cited by  
WO02095215A1; DE102008031690B4; DE102008053310A1; WO2004051072A1; EP1155231B1; WO0144652A1; US6758419B2; US8020789B2; US8656591B2

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**US 5732888 A 19980331**; BR 9406079 A 19960116; CN 1049951 C 20000301; CN 1116871 A 19960214; CZ 197795 A3 19960515; CZ 285156 B6 19990512; EP 0683862 A1 19951129; EP 0683862 B1 19980610; ES 2118531 T3 19980916; JP 2005337266 A 20051208; JP 3742651 B2 20060208; JP 3864175 B2 20061227; JP H08506877 A 19960723; RU 2131549 C1 19990610; WO 9516126 A1 19950615

DOCDB simple family (application)  
**US 50100195 A 19950809**; BR 9406079 A 19941124; CN 94190986 A 19941124; CZ 197795 A 19941124; DE 9401392 W 19941124; EP 95900661 A 19941124; ES 95900661 T 19941124; JP 2005244548 A 20050825; JP 51587295 A 19941124; RU 95120170 A 19941124