

Title (en)
Microvalve

Title (de)
Mikroventil

Title (fr)
Microsoupape

Publication
EP 0836012 A3 19981104 (DE)

Application
EP 97113979 A 19970813

Priority
DE 19637945 A 19960917

Abstract (en)
[origin: EP0836012A2] A micro-valve (50a,50b) controls a fluid flow and consists of a valve flap (52) operated by electro-static force and covering a number of esp. laser-drilled perforations (56) in a plate (54). The thickness of the plate (54) sections between adjacent perforations (56) is reduced in comparison to the thickness of the surrounding material. The rim of each perforation (56) directed towards the valve flap (52) bears a surrounding lip (64). The valve flap (52) has a series of perforations (66) which admit fluid in the open position, and close the plate perforations (56) in the closed position.

IPC 1-7
F15C 5/00

IPC 8 full level
F15C 5/00 (2006.01)

CPC (source: EP)
F15C 5/00 (2013.01)

Citation (search report)

- [A] EP 0314285 A1 19890503 - FORD MOTOR CO [GB], et al
- [A] DE 4101575 A1 19920723 - BOSCH GMBH ROBERT [DE]
- [A] EP 0465229 A1 19920108 - SEIKO EPSON CORP [JP]

Cited by
US6986365B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19637945 A1 19980402; DE 19637945 C2 19981001; DE 59710369 D1 20030807; EP 0836012 A2 19980415; EP 0836012 A3 19981104; EP 0836012 B1 20030702

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DE 19637945 A 19960917; DE 59710369 T 19970813; EP 97113979 A 19970813