

Title (en)  
THROTTLE VALVE AND METHOD OF FABRICATION

Title (de)  
DROSSELVENTIL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
ROBINET D'ÉTRANGLEMENT ET PROCÉDÉ DE FABRICATION

Publication  
**EP 2422064 A4 20131016 (EN)**

Application  
**EP 10767648 A 20100420**

Priority  
• US 2010031766 W 20100420  
• US 17094209 P 20090420  
• US 31734910 P 20100325

Abstract (en)  
[origin: WO2010123913A1] A valve has a body having a fluid passageway and an opening; a shaft-plate assembly comprising a shaft and a plate coupled to the shaft; and a cover secured to the body and covering the opening. The cover has a shaft bore that receives the shaft of the shaft-plate assembly. The shaft-plate assembly is rotatable within the fluid passageway. A method of manufacture of a valve includes providing a body having a fluid passageway and an opening; providing a shaft- plate assembly comprising a shaft and a plate coupled to the shaft; providing a cover comprising a shaft bore. The method further includes inserting the shaft of the shaft-plate assembly into the shaft bore of the cover; positioning the plate of the shaft-plate assembly within the fluid passageway through the opening; and securing the cover to the body.

IPC 8 full level  
**F02D 9/04** (2006.01); **F02D 9/10** (2006.01); **F16K 1/22** (2006.01)

CPC (source: EP)  
**F01N 13/10** (2013.01); **F02B 37/025** (2013.01); **F02B 37/183** (2013.01); **F02D 9/04** (2013.01); **F02D 9/101** (2013.01); **F02D 9/1015** (2013.01); **F02D 9/1025** (2013.01); **F02D 9/1035** (2013.01); **F02D 9/104** (2013.01); **F02D 9/106** (2013.01); **F02D 9/107** (2013.01); **F16K 1/22** (2013.01); **F16K 1/221** (2013.01); **F16K 27/0218** (2013.01); **F01N 2240/36** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)  
• [XA] US 5342019 A 19940830 - BRAUN HERMANN [DE], et al  
• [XA] GB 936472 A 19630911 - APV CO LTD  
• [XA] WO 03089819 A1 20031030 - JENARA ENTPR LTD [CA], et al  
• [X] US 5553830 A 19960910 - STARY GARY M [US]  
• [X] DE 4416739 A1 19951116 - ALPHA TECHNIK GMBH [DE]  
• [X] DE 102004032974 A1 20060202 - FAURECIA ABGASTECHNIK GMBH [DE]  
• [X] WO 2006003017 A1 20060112 - FAURECIA ABGASTECHNIK GMBH [DE], et al  
• See references of WO 2010123913A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010123913 A1 20101028**; CN 102439275 A 20120502; EP 2422064 A1 20120229; EP 2422064 A4 20131016; JP 2012524229 A 20121011

DOCDB simple family (application)  
**US 2010031766 W 20100420**; CN 201080023209 A 20100420; EP 10767648 A 20100420; JP 2012507322 A 20100420