

Title (en)  
PORT ARRANGMENT FOR A ROTARY VALVE ENGINE

Title (de)  
ÖFFNUNGSANORDNUNG FÜR EINEN DREHSCHIEBERMOTOR

Title (fr)  
AGENCEMENT D'ORIFICE POUR MOTEUR A SOUPAPE ROTATIVE

Publication  
**EP 1709304 A1 20061011 (EN)**

Application  
**EP 05700124 A 20050128**

Priority  
• AU 2005000092 W 20050128  
• AU 2004900377 A 20040128

Abstract (en)  
[origin: WO2005073522A1] A axial flow rotary valve rotatable within a bore in a cylinder head (9) of an internal combustion engine has a port extending from a peripheral opening (4) to an axial opening at one end of the valve. The peripheral opening (4), which periodically communicates with a combustion chamber (30) through a window (8) in the bore, has a first trailing edge (13). The window (8) has a second trailing edge (12). The port closes from the combustion chamber (30) as the first trailing edge (13) passes the second trailing edge (12). The edges (12, 13) are disposed such that the instantaneous intersection point (17) of the two edges (12, 13) progressively moves away from the axial opening over at least 50% of the length of the window (8) as the port closes.

IPC 8 full level  
**F01L 7/02** (2006.01); **F01L 3/06** (2006.01)

CPC (source: EP US)  
**F01L 3/06** (2013.01 - EP US); **F01L 7/023** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005073522A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005073522 A1 20050811**; EP 1709304 A1 20061011; JP 2007519847 A 20070719; US 2008053395 A1 20080306

DOCDB simple family (application)  
**AU 2005000092 W 20050128**; EP 05700124 A 20050128; JP 2006549787 A 20050128; US 58578205 A 20050128