

Title (en)  
INTERNAL COMBUSTION ENGINE

Title (de)  
VERBRENNUNGSMOTOR

Title (fr)  
MOTEUR À COMBUSTION INTERNE

Publication  
**EP 2683920 B1 20200506 (EN)**

Application  
**EP 11791343 A 20110914**

Priority  
• IN 671CH2011 A 20110307  
• IN 2011000637 W 20110914

Abstract (en)  
[origin: WO2012120529A1] The subject matter described herein relates to an internal combustion engine (100). The internal combustion engine (100) comprises at least one port (132, 134), and a valve (164, 166) provided at the port (132, 134) to regulate opening and closing of the port (132, 134). A valve seat (202, 302) is also provided at the port (132, 134) for resting the valve (164, 166). Further, a valve seat rim (204, 304) is provided at the valve seat (202, 302) to delay opening and to advance closing of the port (132, 134).

IPC 8 full level  
**F01L 3/22** (2006.01); **F02D 23/00** (2006.01)

CPC (source: EP)  
**F01L 3/22** (2013.01); **F02B 25/145** (2013.01); **F02B 33/04** (2013.01); **F02M 67/005** (2013.01); **F02M 69/10** (2013.01); **F02B 2075/025** (2013.01)

Citation (examination)  
• DE 1813906 A1 19700709 - WOLF DIPL ING KARL  
• US 4907544 A 19900313 - BURRAHM ROBERT W [US]  
• GB 861080 A 19610215 - DAIMLER BENZ AG  
• US 1963780 A 19340619 - DU BOIS MARCEL

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012120529 A1 20120913; WO 2012120529 A8 20121108**; EP 2683920 A1 20140115; EP 2683920 B1 20200506

DOCDB simple family (application)  
**IN 2011000637 W 20110914**; EP 11791343 A 20110914