

Title (en)  
Valve seat

Title (de)  
Ventilsitz

Title (fr)  
Siège de soupape

Publication  
**EP 2138679 A1 20091230 (EN)**

Application  
**EP 08159248 A 20080627**

Priority  
EP 08159248 A 20080627

Abstract (en)  
The invention relates to a valve arrangement and a valve seat insert in a cylinder head in an internal combustion engine comprising at least one combustion chamber provided with at least one intake valve cooperating with a valve seat insert, said valve seat insert being arranged in a cavity in the cylinder head and having a first surface facing the combustion chamber and a second surface facing a corresponding surface in the cylinder head. The valve seat arrangement is provided with means for conveying pressure from the combustion chamber to the outer periphery of the valve seat insert.

IPC 8 full level  
**F01L 3/22** (2006.01); **F01L 3/02** (2006.01)

CPC (source: EP)  
**F01L 3/02** (2013.01); **F01L 3/22** (2013.01)

Citation (applicant)  
US 6260531 B1 20010717 - HAAN DEBORAH MARTHA [US], et al

Citation (search report)  
• [AD] US 6260531 B1 20010717 - HAAN DEBORAH MARTHA [US], et al  
• [A] DE 3714229 A1 19881110 - KLOECKNER HUMBOLDT DEUTZ AG [DE]  
• [A] US 4108132 A 19780822 - HAYASHI YOSHIMASA

Designated contracting state (EPC)  
DE GB SE

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2138679 A1 20091230; EP 2138679 B1 20110216**; CN 201568097 U 20100901; DE 602008005004 D1 20110331

DOCDB simple family (application)  
**EP 08159248 A 20080627**; CN 200920156832 U 20090623; DE 602008005004 T 20080627