

Title (en)
Engine valve

Title (de)
Ventil für Brennkraftmaschinen

Title (fr)
Soupape pour moteur à combustion interne

Publication
EP 1193375 B1 20020605 (DE)

Application
EP 00121412 A 20000929

Priority
EP 00121412 A 20000929

Abstract (en)
[origin: EP1193375A1] Valve, preferably for an internal combustion engine, comprises a valve shaft (2), a valve cone (3), and a valve disk (4). The valve cone has a recess (3a) for receiving the valve disk, and the valve cone and the valve disk together form a hollow chamber. The valve disk has a smaller diameter than the recess in the valve cone so that an insulating gap (6) is produced between the recess in the valve cone and the edge (4a) of the valve disk. Preferred Features: An annular shoulder (3b) is arranged in the recess of the valve cone and supports the valve disk in the direction of the valve axis.

IPC 1-7
F01L 3/20; **F01L 3/14**

IPC 8 full level
F01L 3/12 (2006.01); **F01L 3/14** (2006.01); **F01L 3/20** (2006.01)

CPC (source: EP US)
F01L 3/14 (2013.01 - EP US); **F01L 3/20** (2013.01 - EP US); **Y10T 29/49307** (2015.01 - EP US)

Cited by
DE10204122C1; EP3450707A1; WO2017050453A1; US10934900B2; EP3450707B1

Designated contracting state (EPC)
DE ES FR GB SE

DOCDB simple family (publication)
EP 1193375 A1 20020403; **EP 1193375 B1 20020605**; DE 50000201 D1 20020711; JP 2002180811 A 20020626; US 2002066432 A1 20020606; US 6453867 B1 20020924

DOCDB simple family (application)
EP 00121412 A 20000929; DE 50000201 T 20000929; JP 2001294311 A 20010926; US 96628301 A 20010928