

Title (en)

Gas exchange valve of an internal combustion engine

Title (de)

Gaswechselsventil eines Verbrennungsmotors

Title (fr)

Soupape d'échange de gaz de moteur à combustion interne

Publication

EP 1731723 B1 20070926 (DE)

Application

EP 06113928 A 20060515

Priority

DE 102005027130 A 20050611

Abstract (en)

[origin: EP1731723A1] The valve has a valve shaft (1) made up of two parts, namely an upper shaft part (2) and a lower shaft part (3). The shaft parts are telescoped together and joined in a connecting area (4) that is made up of two axially separate special joining areas. The upper shaft is welded to a valve cone (6) sealed by a valve tray (5), where outer areas of the valve cone and the lower shaft part have same outside diameter. Hollow spaces exist between the lower shaft part and the valve cone in a form of an annular space and within the lower shaft part in the form of a hollow cone.

IPC 8 full level

F01L 3/00 (2006.01); **B23P 15/00** (2006.01); **F01L 3/12** (2006.01); **F01L 3/20** (2006.01)

CPC (source: EP US)

F01L 3/00 (2013.01 - EP US); **F01L 3/12** (2013.01 - EP US); **F01L 3/20** (2013.01 - EP US)

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DE FR GB

DOCDB simple family (publication)

EP 1731723 A1 20061213; **EP 1731723 B1 20070926**; DE 102005027130 A1 20061214; DE 502006000114 D1 20071108; US 2006278193 A1 20061214; US 7603976 B2 20091020

DOCDB simple family (application)

EP 06113928 A 20060515; DE 102005027130 A 20050611; DE 502006000114 T 20060515; US 44488006 A 20060601