

Title (en)

VALVE BODY COMPRISING A POLYCONICAL GEOMETRY ON THE VALVE SEAT

Title (de)

VENTILK RPER MIT MEHRFACHKEGELGEOMETRIE AM VENTILSITZ

Title (fr)

CORPS DE SOUPAPE PRESENTANT AU NIVEAU DU SIEGE DE SOUPAPE UNE GEOMETRIE DE CONE MULTIPLE

Publication

**EP 1700030 A1 20060913 (DE)**

Application

**EP 04790029 A 20041022**

Priority

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- DE 10359302 A 20031217

Abstract (en)

[origin: WO2005059353A1] The invention relates to a valve (1) for controlling highly pressurized liquids. Said valve (1) comprises a valve seat zone (5) where a high-pressure zone (6, 23) and a low-pressure zone (7) can be connected to or disconnected from each other. A seat surface (29) for a conical valve member (3) is embodied on a valve body (2), said seat surface (29) extending in a slanted manner within the valve body (2). The conical valve member (3) is provided with a polyconical geometry (19) in the valve seat zone (5). Said polyconical geometry encompasses at least one first conical surface (20) and a second conical surface (21) which are provided with different cone angles (18, 18a, 27, 28).

IPC 8 full level

**F02M 61/18** (2006.01); **F02M 61/08** (2006.01); **F16K 1/38** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2005059353A1

Citation (examination)

- DE 3231869 A1 19840301 - BOSCH GMBH ROBERT [DE]
- EP 1321661 A2 20030625 - BOSCH GMBH ROBERT [DE]
- JP 2001221135 A 20010817 - YANMAR DIESEL ENGINE CO

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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DOCDB simple family (application)

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