

Title (en)

Sealing arrangement, especially for injectors of an internal combustion engine and method for manufacturing such a sealing seat

Title (de)

Dichtungsanordnung, insbesondere für Brennstoffeinspritzventile in Brennkraftmaschinen und Verfahren zur Herstellung eines Dichtsitzes

Title (fr)

Dispositif d'étanchéité, en particulier pour injecteurs de moteur à combustion interne et procédé d'un tel siège d'étanchéité

Publication

**EP 0955128 A3 20010411 (DE)**

Application

**EP 98109828 A 19980529**

Priority

US 7355098 A 19980506

Abstract (en)

[origin: US6173494B1] A valve seat for a ball valve, especially a fuel-injection valve for an internal-combustion engine is finely ground to form a trough in the conically-ground seat with a circular arc cross section in planes of the axis and of a depth to eliminate shape variations in the conically-ground valve seat. The circular arc radius of the trough is greater than the radius of the ball.

IPC 1-7

**B24B 15/02**; **B24B 11/00**

IPC 8 full level

**B24B 11/00** (2006.01); **B24B 15/02** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)

**B24B 11/00** (2013.01 - EP US); **B24B 15/02** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **Y10T 29/49375** (2015.01 - EP US); **Y10T 29/49409** (2015.01 - EP US); **Y10T 137/0318** (2015.04 - EP US); **Y10T 137/791** (2015.04 - EP US)

Citation (search report)

- [A] WO 9728392 A2 19970807 - SIEMENS AUTOMOTIVE CORP LP [US]
- [A] US 4365747 A 19821228 - KNAPP HEINRICH, et al
- [A] DE 2033051 A1 19720105 - BOSCH GMBH ROBERT
- [A] DE 19545333 A1 19970612 - BOSCH GMBH ROBERT [DE]
- [A] DE 2410805 A1 19750911 - ZAHNRADFABRIK FRIEDRICHSHAFEN

Cited by

EP1493534A1; EP1166962A1; DE10029322A1; WO2005000524A1; DE202004021514U1; US6564456B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6173494 B1 20010116**; DE 59804798 D1 20020822; EP 0955128 A2 19991110; EP 0955128 A3 20010411; EP 0955128 B1 20020717; US 6098958 A 20000808

DOCDB simple family (application)

**US 49054400 A 20000124**; DE 59804798 T 19980529; EP 98109828 A 19980529; US 7355098 A 19980506