

Title (en)

Valve stem seal for internal combustion engine

Title (de)

Ventilschaftabdichtung an Verbrennungskraftmaschinen

Title (fr)

Joint de queue de soupape pour moteur à combustion interne

Publication

EP 1338762 A3 20061018 (DE)

Application

EP 03002943 A 20030211

Priority

DE 10207818 A 20020225

Abstract (en)

[origin: EP1338762A2] Valve stem seal (1) comprises a seal element (3) made of a polymer material lying radially on the valve stem (8) and axially on the valve stem guide (6), and a sleeve-like holding part (2) holding the seal element. The holding part has wall parts (4) designed as polyhedrons lying on the outer wall (5) of the valve stem guide. Preferred Features: The wall parts lie under spring force on the outer wall of the valve stem guide. The holding part has a triangular cross-section.

IPC 8 full level

F01L 3/08 (2006.01); **F16J 15/3204** (2016.01); **F16J 15/3212** (2016.01)

CPC (source: EP US)

F01L 3/08 (2013.01 - EP US); **F01L 2301/00** (2020.05 - EP US)

Citation (search report)

- [XA] US 4531483 A 19850730 - VOSSIECK PAUL [DE], et al
- [A] EP 0310455 A1 19890405 - K LINE IND INC [US]
- [A] US 3554180 A 19710112 - LESSER CARL W

Cited by

DE102015209427A1; US10443734B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

Designated extension state (EPC)

AL LT LV MK RO

DOCDB simple family (publication)

EP 1338762 A2 20030827; **EP 1338762 A3 20061018**; **EP 1338762 B1 20080820**; AT E405727 T1 20080915; BR 0300460 A 20040817; CN 1255621 C 20060510; CN 1441151 A 20030910; DE 10207818 A1 20030918; DE 10207818 B4 20060406; DE 50310336 D1 20081002; JP 2003254020 A 20030910; US 2003160394 A1 20030828

DOCDB simple family (application)

EP 03002943 A 20030211; AT 03002943 T 20030211; BR 0300460 A 20030224; CN 03100215 A 20030103; DE 10207818 A 20020225; DE 50310336 T 20030211; JP 2003046973 A 20030225; US 36735203 A 20030214