

Title (en)

EGR valve for an internal combustion engine and valve seat therefor

Title (de)

AGR-Ventil für eine Brennkraftmaschine und Ventilsitz dafür

Title (fr)

Soupape de recirculation de gaz d'échappement pour un moteur à combustion interne et son siège de soupape

Publication

EP 1739301 A1 20070103 (EN)

Application

EP 05253995 A 20050628

Priority

EP 05253995 A 20050628

Abstract (en)

An annular valve seat 2 for an EGR valve having a tapered or conical valve head 4, the valve seat 2 having a cooperating conical contact face 8, said contact face having a plurality of radially spaced regions 12 having a width in a substantially axial direction greater than the width of regions 10 of the valve seat therebetween, such that the contact area between the valve seat 2 and valve head 4 in said spaced regions is greater than the contact area between the valve seat 2 and the valve head 4 in the regions between said spaced regions.

IPC 8 full level

F02M 25/07 (2006.01)

CPC (source: EP)

F02M 26/68 (2016.02); **F02M 26/50** (2016.02)

Citation (search report)

- [A] DE 4009923 A1 19911002 - FEV MOTORENTECH GMBH & CO KG [DE]
- [A] DE 10048499 A1 20020411 - PIERBURG AG [DE], et al
- [A] US 6631707 B1 20031014 - BENDER FRANZ [DE], et al
- [A] US 4349003 A 19820914 - MASUDA YOSHIHIKO

Cited by

CN109348724A

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1739301 A1 20070103

DOCDB simple family (application)

EP 05253995 A 20050628