

Title (en)

Hybrid valve stem seal retainer assembly

Title (de)

Hybride Halterungsanordnung einer Ventilschaftdichtung

Title (fr)

Ensemble hybride de retenue de joint de tige de soupape

Publication

EP 2626524 A1 20130814 (EN)

Application

EP 13154493 A 20130207

Priority

US 201261596297 P 20120208

Abstract (en)

A valve stem seal assembly has a metal retainer, an elastomeric seal, and a metal valve guide. The metal retainer and the elastomeric seal are attached to each other, and the elastomeric seal is in sealable contact with the metal valve guide, while the metal retainer is in metal-to-metal gripping contact with the metal valve guide. A stop may be formed in the metal retainer that cooperates with a shoulder formed in the metal valve guide in order to prevent over-installation of the assembly of the elastomeric seal with attached metal retainer, when this assembly is installed over the metal valve guide.

IPC 8 full level

F01L 3/08 (2006.01); **F16J 15/32** (2006.01)

CPC (source: EP)

F01L 3/08 (2013.01)

Citation (search report)

- [Y] US 6244235 B1 20010612 - HEGEMIER TIMOTHY ALAN [US], et al
- [Y] JP 2004019852 A 20040122 - NOK CORP
- [Y] US 5558056 A 19960924 - SAKATA DAVID [US]
- [Y] EP 2236867 A1 20101006 - FREUDENBERG CARL KG [DE]
- [Y] JP H023001 U 19900110
- [Y] DE 19949471 C1 20010503 - CR ELASTOMERE GMBH [DE]
- [Y] US 3554562 A 19710112 - DAVIS CARLISLE R JR
- [A] GB 1078586 A 19670809 - DANA CORP
- [A] US 2005040603 A1 20050224 - LEIMER MARK A [US]
- [A] EP 0519158 A1 19921223 - GOETZE AG [DE]

Cited by

US11608760B2; US9956645B2; WO2017034619A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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