

Title (en)  
LOW LOAD OFFSET SEAL

Title (de)  
DICHTUNG MIT GERINGEM LADUNGSVERSATZ

Title (fr)  
JOINT DÉCALÉ À FAIBLE CHARGE

Publication  
**EP 2622252 A4 20170125 (EN)**

Application  
**EP 11832988 A 20110923**

Priority  
• US 38763810 P 20100929  
• US 2011052908 W 20110923

Abstract (en)  
[origin: WO2012050791A1] A seal is provided for insertion in a bore in an outer member and engaging an inner member received in the bore. The seal includes an outer annular insert having a first diameter and an inner annular insert having a second diameter smaller than the first diameter. An elastomeric body includes an outer portion over-molded on the outer annular insert and an inner seal over-molded on the inner annular insert and including an intermediate web extending between the outer portion and the inner portion. The web extends both axially and radially relative to a center axis of the outer annular insert. The inner seal includes an inboard sealing surface and the outer portion including an outboard sealing surface.

IPC 8 full level  
**F16L 17/02** (2006.01); **F16J 3/04** (2006.01); **F16J 15/02** (2006.01); **F16J 15/3224** (2016.01); **F16L 5/02** (2006.01)

CPC (source: EP)  
**F02M 61/14** (2013.01); **F02M 61/168** (2013.01); **F16J 3/042** (2013.01); **F16J 15/025** (2013.01); **F16J 15/3224** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/858** (2013.01); **F16L 5/025** (2013.01); **F16L 5/10** (2013.01)

Citation (search report)  
• [XY] US 7513690 B2 20090407 - YAMAMOTO HIROSHI [JP], et al  
• [Y] US 3411793 A 19681119 - JAGGER ERNEST T, et al  
• See references of WO 2012050791A1

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

DOCDB simple family (publication)  
**WO 2012050791 A1 20120419**; BR 112013004899 A2 20160503; BR 112013004899 B1 20200526; CN 103080624 A 20130501; EP 2622252 A1 20130807; EP 2622252 A4 20170125

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**US 2011052908 W 20110923**; BR 112013004899 A 20110923; CN 201180041764 A 20110923; EP 11832988 A 20110923