

Title (en)  
CLOSURE ELEMENT

Title (de)  
VERSCHLUSSELEMENT

Title (fr)  
ÉLÉMENT DE FERMETURE

Publication  
**EP 3169926 A1 20170524 (DE)**

Application  
**EP 14741296 A 20140718**

Priority  
EP 2014065495 W 20140718

Abstract (en)  
[origin: WO2016008539A1] The invention relates to a closure element (1) for tightly closing a bore (2), the closure body (3) of which closure element can be pressed into the bore (2) with an oversize. In order to avoid damage to the bore, the closure body (3) is designed as a hollow body. In this way, the closure body can deform slightly as the closure body is pressed into the bore (2) and can thereby reduce the radial pressure on the wall (4) of the borehole. At the same time, the weight of the closure element is reduced. The closure element is preferably a hollow sphere having uniform wall thickness.

IPC 8 full level  
**F16L 55/11** (2006.01)

CPC (source: EP KR US)  
**F02B 77/005** (2013.01 - EP KR US); **F16L 55/11** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2016008539A1

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)  
**WO 2016008539 A1 20160121**; CA 2954304 A1 20160121; CN 107076347 A 20170818; CN 107076347 B 20201218; EP 3169926 A1 20170524; JP 2017524114 A 20170824; JP 6538838 B2 20190703; KR 20170033375 A 20170324; MX 2017000525 A 20171004; RU 2017103997 A 20180820; RU 2017103997 A3 20180820; US 10030802 B2 20180724; US 2017205017 A1 20170720

DOCDB simple family (application)  
**EP 2014065495 W 20140718**; CA 2954304 A 20140718; CN 201480080675 A 20140718; EP 14741296 A 20140718; JP 2017522718 A 20140718; KR 20177004447 A 20140718; MX 2017000525 A 20140718; RU 2017103997 A 20140718; US 201415326518 A 20140718