

Title (en)  
IMPROVED SEAL

Title (de)  
VERBESSERTE DICHTUNG

Title (fr)  
DISPOSITIF D'ÉTANCHÉITÉ PERFECTIONNÉ

Publication  
**EP 2232006 A1 20100929 (EN)**

Application  
**EP 09702380 A 20090102**

Priority  
• GB 2009000010 W 20090102  
• GB 0800884 A 20080118

Abstract (en)  
[origin: WO2009090367A1] A seal arrangement (10) comprises a plurality of seal elements (14) arranged in series. At least one seal element (14a) has a predetermined rated pressure and includes a relief arrangement (20a) permitting relief of pressure across the seal element (14a) at a predetermined level lower than said rated pressure.

IPC 8 full level  
**E21B 33/12** (2006.01); **E21B 34/08** (2006.01); **F16J 15/00** (2006.01); **F16J 15/16** (2006.01)

CPC (source: EP US)  
**E21B 33/1216** (2013.01 - EP US); **E21B 34/08** (2013.01 - EP US); **F16J 15/006** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009090367A1

Citation (examination)  
• US 2678605 A 19540518 - TAPMEYER RONALD A  
• US 3385367 A 19680528 - PAUL KOLLSMAN

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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US 2011101613 A1 20110505

DOCDB simple family (application)  
**GB 2009000010 W 20090102**; AU 2009204716 A 20090102; EP 09702380 A 20090102; GB 0800884 A 20080118; US 81289709 A 20090102