

Title (en)  
OIL PAN DEVICE

Title (de)  
ÖLWANNE

Title (fr)  
ENSEMBLE BAC À HUILE

Publication  
**EP 3375992 A4 20190717 (EN)**

Application  
**EP 16864363 A 20161111**

Priority  
• JP 2015222131 A 20151112  
• JP 2016083560 W 20161111

Abstract (en)  
[origin: EP3375992A1] An oil pan device (1) is provided with an oil pan (10) that is attached to a lower end (5a) of a crankcase (5) of an engine, and a drain bolt (50). The oil pan (10) includes a recessed portion (33) formed by recessing a bottom surface portion (32) upward, an inclined portion (35) that sections the recessed portion (33), and a bolt hole (36) that is provided in the inclined portion (35), and when the drain bolt (50) is attached to the bolt hole (36), a head portion (52) of the drain bolt (50) is accommodated in the recessed portion (33).

IPC 8 full level  
**F01M 11/00** (2006.01); **F01M 11/04** (2006.01)

CPC (source: EP US)  
**F01M 11/00** (2013.01 - US); **F01M 11/0004** (2013.01 - EP US); **F01M 11/0408** (2013.01 - EP US)

Citation (search report)  
• [X] WO 2014079591 A1 20140530 - MANN & HUMMEL GMBH [DE]  
• [X] JP S61145818 U 19860909  
• [X] JP 2012047092 A 20120308 - DAIHATSU MOTOR CO LTD  
• [X] US 2012318799 A1 20121220 - SPIX THOMAS A [US], et al  
• See references of WO 2017082402A1

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)  
**EP 3375992 A1 20180919; EP 3375992 A4 20190717; EP 3375992 B1 20200902**; CN 108350774 A 20180731; CN 108350774 B 20200707; JP 2017089533 A 20170525; JP 6661984 B2 20200311; US 2018355772 A1 20181213; WO 2017082402 A1 20170518

DOCDB simple family (application)  
**EP 16864363 A 20161111**; CN 201680065886 A 20161111; JP 2015222131 A 20151112; JP 2016083560 W 20161111; US 201615775204 A 20161111