

Title (en)  
ENGINE AND VEHICLE

Title (de)  
MOTOR UND FAHRZEUG

Title (fr)  
MOTEUR ET VÉHICULE

Publication  
**EP 2949890 A3 20160224 (EN)**

Application  
**EP 15163611 A 20150415**

Priority  
JP 2014108988 A 20140527

Abstract (en)  
[origin: EP2949890A2] A decompression mechanism is disposed between both ends of a cam shaft in the axial direction of the cam shaft. The decompression mechanism includes a weight and a decompression cam. The weight is supported in a rotatable manner on the cam shaft. The decompression cam switches between a state of coming into contact with a valve mechanism and a state of not coming into contact with the valve mechanism in response to the rotation of the weight. The weight includes an inner ring contact portion. The inner ring contact portion is disposed in line with an inner ring of a bearing in the axial direction of the cam shaft. The inner ring contact portion is located on the inside in the radial direction of the inner peripheral surface of an outer ring of the bearing.

IPC 8 full level  
**F01L 13/08** (2006.01)

CPC (source: EP)  
**F01L 1/053** (2013.01); **F01L 13/085** (2013.01); **F01L 1/181** (2013.01); **F01L 1/20** (2013.01); **F01L 2001/0476** (2013.01); **F01L 2001/0535** (2013.01); **F01L 2305/00** (2020.05); **F01L 2820/035** (2013.01)

Citation (search report)  
• [A] EP 1380729 A1 20040114 - TECUMSEH PRODUCTS CO [US]  
• [A] US 2012199087 A1 20120809 - TSUCHIYA RYUJI [JP], et al  
• [A] US 2006225686 A1 20061012 - ASANO YUICHI [JP], et al  
• [A] US 2008302321 A1 20081211 - TAKEMOTO KAZUHISA [JP], et al

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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)  
**EP 2949890 A2 20151202; EP 2949890 A3 20160224; EP 2949890 B1 20170125**; CN 105275530 A 20160127; CN 105275530 B 20171208; ES 2616370 T3 20170612; JP 2015224580 A 20151214; TW 201546360 A 20151216; TW I611095 B 20180111

DOCDB simple family (application)  
**EP 15163611 A 20150415**; CN 201510276227 A 20150526; ES 15163611 T 20150415; JP 2014108988 A 20140527; TW 104116115 A 20150520