

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
BRENNKRAFTMASCHINE

Title (fr)
MOTEUR A COMBUSTION INTERNE

Publication
EP 2550439 A1 20130130 (DE)

Application
EP 11718894 A 20110228

Priority
• DE 102010012279 A 20100322
• DE 2011000194 W 20110228

Abstract (en)
[origin: WO2011116737A1] The invention relates to an internal combustion engine, comprising a plurality of sub-units, which each comprise a crankshaft part, at least one piston being accommodated on a crank of each crankshaft part by means of a connecting rod, wherein at least one first sub-unit is permanently operated during the operation of the internal combustion engine and at least one further sub-unit can be switched off. In order to switch off a sub-unit and to disconnect the crankshaft parts from each other, the crankshaft parts of the at least one first sub-unit and of an adjacent second sub-unit that can be switched off are connected to each other in a rotationally locked manner and can be moved relative to each other with respect to the rotational axes thereof in such a way that a rotational motion applied to the crankshaft part of the second sub-unit by the crankshaft part of the first sub-unit is substantially suspended.

IPC 8 full level
F02D 17/02 (2006.01); **F02B 73/00** (2006.01); **F02D 25/04** (2006.01)

CPC (source: EP US)
F02D 17/02 (2013.01 - EP US); **F02D 25/04** (2013.01 - EP US); **Y10T 74/2186** (2015.01 - US)

Citation (search report)
See references of WO 2011116737A1

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)
DE 102011012605 A1 20110922; CN 102770642 A 20121107; CN 102770642 B 20151021; DE 112011100986 A5 20130411;
EP 2550439 A1 20130130; EP 2550439 B1 20140514; US 2013014727 A1 20130117; US 8739758 B2 20140603; WO 2011116737 A1 20110929

DOCDB simple family (application)
DE 102011012605 A 20110228; CN 201180010407 A 20110228; DE 112011100986 T 20110228; DE 2011000194 W 20110228;
EP 11718894 A 20110228; US 201213624177 A 20120921