

Title (en)
LINEAR ACTUATION FOR CONTINUOUSLY VARIABLE-STROKE CYCLE ENGINE

Title (de)
LINEARE BETÄTIGUNG FÜR MOTOR MIT KONTINUIERLICH VARIABLEM TAKTZYKLUS

Title (fr)
ACTIONNEMENT LINÉAIRE POUR MOTEUR À TEMPS VARIABLE EN CONTINU

Publication
EP 2995800 A1 20160316 (EN)

Application
EP 15183772 A 20150903

Priority
US 201414475786 A 20140903

Abstract (en)
A variable-stroke reciprocating internal combustion engine, the engine having an engine shaft and a piston configured to reciprocate within a cylinder chamber having an axis, each piston having a first piston part operable to move in unison with or separately from a second piston part to define piston strokes for different thermal functions of the engine, includes an assembly pivotally coupled to the first piston part at a copy point and an actuator coupled to the assembly, wherein the actuator is operable to control motion of the assembly to thereby define substantially linear movement of the copy point along the cylinder chamber axis.

IPC 8 full level
F02B 75/32 (2006.01)

CPC (source: EP RU)
F02B 41/04 (2013.01 - RU); **F02B 75/04** (2013.01 - RU); **F02B 75/32** (2013.01 - EP RU)

Citation (search report)
• [I] US 5243938 A 19930914 - YAN MIIN J [US]
• [XD] WO 2013177321 A1 20131128 - YAN ENGINES INC [US]

Cited by
GB2550320A; CN109690051A; US10371046B2; WO2017168158A1; WO2017168157A1

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 2995800 A1 20160316; BR 132015021561 E2 20180417; CA 2901049 A1 20160303; CN 105604695 A 20160525; CN 105604695 B 20200103; JP 2016053365 A 20160414; JP 6813943 B2 20210120; KR 20160028386 A 20160311; MX 2015011587 A 20160607; MX 359143 B 20180917; RU 2015137520 A 20170309; RU 2015137520 A3 20190404; RU 2708191 C2 20191204

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EP 15183772 A 20150903; BR 132015021561 A 20150903; CA 2901049 A 20150819; CN 201510556867 A 20150902; JP 2015173459 A 20150903; KR 20150123630 A 20150901; MX 2015011587 A 20150903; RU 2015137520 A 20150902