

Title (en)  
STIRLING ENGINE

Title (de)  
STIRLINGMOTOR

Title (fr)  
MOTEUR STIRLING

Publication  
**EP 3530921 A4 20191009 (EN)**

Application  
**EP 17862104 A 20170922**

Priority  
• JP 2016204542 A 20161018  
• JP 2017034306 W 20170922

Abstract (en)  
[origin: EP3530921A1] A Stirling engine 1 includes: pistons 3 and 4 that reciprocate in a cylinder 2; a heat exchanger 7 that promotes contraction and expansion of an operating fluid in the cylinder 2; and a power takeout device 11 that converts a reciprocation driving force by each of the pistons 3 and 4 to a rotative force. The heat exchanger 7 alternately repeats contraction and expansion of the operating fluid in the cylinder 2 to cause the pistons 3 and 4 to reciprocate. The power takeout device 11 is disposed in a crank box 50 incorporated in a crankcase 13, and lubricating oil is stored in the crank box 50.

IPC 8 full level  
**F02G 1/053** (2006.01)

CPC (source: EP)  
**F02G 1/053** (2013.01); **F02G 2270/95** (2013.01)

Citation (search report)  
• [XY] JP H0291456 A 19900330 - AISIN SEIKI  
• [Y] JP S6023450 Y2 19850712  
• [A] JP 2008101477 A 20080501 - NAT INST OF ADV IND & TECHNOL  
• [A] WO 0116464 A1 20010308 - SUNPOWER INC [US]  
• [E] WO 2018168662 A1 20180920 - YANMAR CO LTD [JP]  
• See references of WO 2018074142A1

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 3530921 A1 20190828; EP 3530921 A4 20191009**; JP 2018066298 A 20180426; JP 6635905 B2 20200129; WO 2018074142 A1 20180426

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