

Title (en)  
ENGINE

Title (de)  
MOTOR

Title (fr)  
MOTEUR

Publication  
**EP 3779165 B1 20221221 (EN)**

Application  
**EP 18912666 A 20180330**

Priority  
JP 2018013837 W 20180330

Abstract (en)  
[origin: EP3779165A1] An engine (E) is provided with: a crank case (1a) that has a first crank shaft insertion hole (19d) and a second crank shaft insertion hole (20a) along the vertical direction; a crank shaft (2) that is inserted into the first and second shaft insertion holes (19d, 20a); and a cylinder unit (21) that extends in the front-rear direction from the crank case (1a). The cylinder unit (21) is provided with a cylinder base (21a) that is positioned inside the crank case (1a), and a cylinder block (21b) that is positioned outside the crank case (1a). The cylinder unit (21) is detachably attached to the crank case (1a).

IPC 8 full level  
**F01L 1/047** (2006.01); **F01L 1/14** (2006.01); **F01L 1/18** (2006.01); **F02F 1/00** (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP)  
**F01L 1/047** (2013.01); **F01L 1/14** (2013.01); **F01L 1/18** (2013.01); **F02F 1/002** (2013.01); **F02F 7/0004** (2013.01)

Citation (examination)  
JP 2001115814 A 20010424 - YAMAHA MOTOR CO LTD

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)  
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