

Title (en)
STARTER ASSEMBLY FOR A HEAT ENGINE

Title (de)
STARTERBAUGRUPPE FÜR EINE WÄRMEKRAFTMASCHINE

Title (fr)
ENSEMBLE DE DÉMARREUR POUR MOTEUR THERMIQUE

Publication
EP 3129639 A1 20170215 (FR)

Application
EP 15720367 A 20150408

Priority
• FR 1453259 A 20140411
• FR 2015050914 W 20150408

Abstract (en)
[origin: WO2015155473A1] A starter assembly (1) for a heat engine, including: a drive shaft (7) including an annular groove (53); a bushing (15) mounted so as to be translatably movable relative to the drive shaft (7); a pinion (17) mounted on the bushing (15); an element (25) for stopping the bushing (15), which is mounted in the annular groove (53) of the drive shaft (7), the stopping element (25) being a resilient circular part which is radially expandable and which consists of an at least 360° metal winding, the inner diameter of which falls between the diameter of the annular groove (53) and the diameter of the drive shaft (7). The dimensions of the stopping element (25) can also be such that the stopping element is rotationally connected to the drive shaft.

IPC 8 full level
F02N 15/00 (2006.01); **F02N 15/06** (2006.01); **F16B 21/18** (2006.01)

CPC (source: CN EP)
F02N 15/065 (2013.01 - CN EP); **F02N 15/063** (2013.01 - CN EP); **F02N 2015/061** (2013.01 - CN EP); **F16B 21/186** (2013.01 - CN EP)

Citation (search report)
See references of WO 2015155473A1

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)
FR 3019858 A1 20151016; **FR 3019858 B1 20160325**; CN 106164467 A 20161123; CN 106164467 B 20190125; EP 3129639 A1 20170215; WO 2015155473 A1 20151015

DOCDB simple family (application)
FR 1453259 A 20140411; CN 201580019049 A 20150408; EP 15720367 A 20150408; FR 2015050914 W 20150408