

Title (en)
Starter

Title (de)
Anlasser

Title (fr)
Démarreur

Publication
EP 2811153 A1 20141210 (EN)

Application
EP 14170553 A 20140530

Priority
• JP 2013115484 A 20130531
• JP 2013240935 A 20131121

Abstract (en)
A starter (1) includes an output shaft (4) which receives rotational force of a motor portion (3) and rotates, a housing (17) that rotatably supports an end portion (104b) on one side of the output shaft (4), and an electromagnetic device (9) that applies and blocks an electric current to the motor portion (3) and biases pressing force directed to a ring gear (23) to a pinion gear (74) through a clutch mechanism (5), wherein a damper portion (50) that mitigates shock in an axial direction from the output shaft (4) to a housing (17) is provided between the housing (17) and an end portion (104b) on one side of the output shaft (4).

IPC 8 full level
F02N 15/06 (2006.01)

CPC (source: EP)
F02N 15/063 (2013.01); **F02N 15/066** (2013.01); **F02N 11/00** (2013.01); **F02N 15/023** (2013.01); **F02N 15/026** (2013.01); **F02N 15/046** (2013.01); **F02N 15/067** (2013.01)

Citation (applicant)
JP 2002130097 A 20020509 - HONDA MOTOR CO LTD

Citation (search report)
• [X] JP S6247771 U 19870324
• [A] JP H09195903 A 19970729 - DENSO CORP
• [A] US 2013133479 A1 20130530 - IKEMORI TOMOHIKO [JP], et al
• [A] WO 03029643 A1 20030410 - VALEO EQUIP ELECTR MOTEUR [FR], et al

Cited by
RU2624778C1

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 2811153 A1 20141210; JP 2015007418 A 20150115; JP 6239351 B2 20171129

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