

Title (en)
Starter-generator and method for controlling the same

Title (de)
Startergenerator und Steuerverfahren dafür

Title (fr)
Démarreur-générateur et son procédé de commande

Publication
EP 2824314 A3 20150617 (EN)

Application
EP 14175229 A 20140701

Priority
JP 2013142841 A 20130708

Abstract (en)
[origin: EP2824314A2] A starter-generator (SG) is provided that is able to efficiently start an engine without causing an increase in the size of a device. The starter-generator (SG) is configured to, at a time of engine start, act as a starter motor that causes a crankshaft of an engine to rotate from a predetermined rotation start position with an approach run given thereto, and after the engine start, act as a generator. The starter-generator (SG) includes a controller (70) for controlling a driver (60) in such a manner that, at a time of engine start, an application voltage applied to a winding is gradually raised such that the application voltage becomes a predetermined voltage that is higher than a terminal voltage of a battery (B) at a time point when the number of rotations of the engine reaches a predetermined first number of rotations, and the application voltage thus raised is maintained at least until the engine is started.

IPC 8 full level
F02N 11/04 (2006.01); **F02N 11/08** (2006.01); **H02J 7/14** (2006.01); **F02N 19/00** (2010.01)

CPC (source: EP)
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Citation (search report)

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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

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EP 14175229 A 20140701; JP 2013142841 A 20130708