

Title (en)
STRADDLED VEHICLE

Title (de)
GRÄTSCHSITZFAHRZEUG

Title (fr)
VÉHICULE DU TYPE MONTÉ À CALIFOURCHON

Publication
EP 3306073 A2 20180411 (EN)

Application
EP 17192707 A 20170922

Priority
JP 2016189634 A 20160928

Abstract (en)
[PROBLEM] To provide a straddled vehicle that is able to shorten a time period until completion of engine start after an engine start instruction.
[SOLUTION] An engine unit includes a single-cylinder engine, a compression release mechanism, a drive wheel, a permanent magnet type motor, a battery, an inverter including a plurality of switching parts, and a control device. The control device controls the switching parts in such a manner that, upon reception of a start instruction for starting the single-cylinder engine, the permanent magnet type motor moves a piston so as to operate the compression release mechanism in a compression stroke of a first combustion cycle, and then the permanent magnet type motor applies a force to the piston via a crankshaft such that the rotation speed of the crankshaft in a second combustion cycle exceeds the pressure-reduction upper limit speed for the compression release mechanism, so that the piston is moved without operating the compression release mechanism in a compression stroke of the second combustion cycle, thus assisting compression of the mixed gas.

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
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