

Title (en)  
Engine System

Title (de)  
Motorsystem

Title (fr)  
Système motorisé

Publication  
**EP 2719883 A1 20140416 (EN)**

Application  
**EP 13188298 A 20131011**

Priority  
JP 2012226053 A 20121011

Abstract (en)  
An engine system includes a single-cylinder engine (10) and an ECU. A crankshaft (13) is rotated in a reverse direction by a starter/generator (14) at the start-up of the engine. A valve driver (17) drives an intake valve (15) such that fuel injected by an injector is led to a combustion chamber (31a) from an intake passage (22) through an intake port at a first time point in a period during which the crankshaft (13) is rotated in the reverse direction. Thereafter, a fuel-air mixture is ignited by an ignition plug at a second time point at which the fuel-air mixture is compressed in the combustion chamber (31a) by the rotation of the crankshaft (13) in the reverse direction and a piston does not reach a compression top dead center.

IPC 8 full level  
**F02D 41/06** (2006.01); **F02N 11/04** (2006.01); **F02N 19/00** (2010.01); **F02N 99/00** (2010.01); **F01L 1/047** (2006.01); **F01L 1/344** (2006.01)

CPC (source: EP)  
**F02D 41/062** (2013.01); **F02N 11/04** (2013.01); **F02N 19/005** (2013.01); **F02N 99/008** (2013.01); **F01L 1/34413** (2013.01); **F01L 2001/0473** (2013.01); **F02D 2250/06** (2013.01); **F02N 19/004** (2013.01); **F02N 99/004** (2013.01); **F02N 2019/007** (2013.01)

Citation (applicant)  
JP 2005248921 A 20050915 - HONDA MOTOR CO LTD

Citation (search report)  
• [A] US 2007204827 A1 20070906 - KISHIBATA KAZUYOSHI [JP], et al  
• [A] US 2010275872 A1 20101104 - BELAU HORST [DE], et al  
• [A] EP 1840369 A1 20071003 - MAZDA MOTOR [JP]  
• [A] JP 2007092720 A 20070412 - MAZDA MOTOR

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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