

Title (en)
ROCKER MOTION-POWERED GENERATORS FOR ROCKER-MOUNTED ELECTRONIC DEVICES

Title (de)
DURCH WIPPENBEWEGUNG ANGETRIEBENE GENERATOREN FÜR WIPPENMONTIERTE ELEKTRONISCHE VORRICHTUNGEN

Title (fr)
GÉNÉRATEURS ENTRAÎNÉS PAR MOUVEMENT DE CULBUTEURS POUR DISPOSITIFS ÉLECTRONIQUES MONTÉS SUR CULBUTEURS

Publication
EP 3224459 A1 20171004 (EN)

Application
EP 15862570 A 20151124

Priority
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• US 2015062535 W 20151124

Abstract (en)
[origin: WO2016086067A1] An internal combustion engine has a valvetrain that includes a rocker arm assembly on which is mounted an electronic device and at least a part of a generator. The generator converts some of the mechanical energy that is transmitted through the rocker arm assemblies into electricity. That electricity may be used to power an electric latch, a transmitter, or another type of rocker arm assembly-mounted electrical device. Various generator configurations are described. In some configurations, the generator is piezoelectric. In other configurations, the generator is electromagnetic. In some configurations, the generator is driven by force transmitted by the rocker arm assembly from a cam. In some configurations, the generator is driven by vibrations.

IPC 8 full level
F01L 1/12 (2006.01); **F01L 1/047** (2006.01); **F01L 1/18** (2006.01); **F01L 9/04** (2006.01)

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F01L 1/047 (2013.01 - EP US); **F01L 1/14** (2013.01 - CN EP US); **F01L 1/143** (2013.01 - CN EP US); **F01L 1/185** (2013.01 - CN EP US); **F01L 1/22** (2013.01 - CN EP US); **F01L 1/2405** (2013.01 - CN EP US); **F01L 1/053** (2013.01 - CN EP US); **F01L 1/146** (2013.01 - CN EP US); **F01L 2001/054** (2013.01 - CN EP US); **F01L 2001/186** (2013.01 - EP US); **F01L 2001/2427** (2013.01 - EP US); **F01L 2001/467** (2013.01 - EP US); **F01L 2013/001** (2013.01 - CN EP US); **F01L 2301/00** (2020.05 - CN EP US); **F01L 2303/00** (2020.05 - CN EP US); **F01L 2305/00** (2020.05 - CN EP US); **F01L 2820/01** (2013.01 - CN EP US); **F01L 2820/031** (2013.01 - EP US); **F01L 2820/04** (2013.01 - EP US)

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