

Title (en)

SUPERCHARGER SYSTEM FOR STOP/START HYBRID OPERATION OF AN INTERNAL COMBUSTION ENGINE

Title (de)

TURBOLADERSYSTEM FÜR HYBRIDEN START-STOPP-BETRIEB EINES VERBRENNUNGSMOTORS

Title (fr)

SYSTEME DE COMPRESSEUR DE SURALIMENTATION POUR UN FONCTIONNEMENT HYBRIDE ARRET/MARCHE D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 2286069 A4 20140528 (EN)

Application

EP 09742981 A 20090415

Priority

- US 2009002364 W 20090415
- US 12662608 P 20080506

Abstract (en)

[origin: WO2009136994A1] A supercharger system for supplying compressed air to an internal combustion engine, including a supercharger; an active clutch operationally connected to the engine that can be selectively opened and closed; a motor/generator operationally connected to the supercharger; an energy storage device operationally connected to the motor/generator; and a secondary drive element connecting the supercharger, the clutch, and the motor/generator to permit synchronous rotation thereof, the clutch being disposed either directly on the crankshaft of the engine or on a primary accessory drive element of the engine. Other devices such as an HVAC compressor may be included optionally on the secondary drive element. At low engine speeds, the supercharger is powered by the motor/generator; at high engine speeds, by the engine.

IPC 8 full level

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CPC (source: EP)

F02B 33/34 (2013.01); **F02B 33/40** (2013.01); **F02B 39/10** (2013.01); **F02B 39/12** (2013.01); **F02D 41/0007** (2013.01); **F02N 11/04** (2013.01); **F02N 15/022** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

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- [I] JP H11173154 A 19990629 - TOCHIGI FUJI SANGYO KK
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