

Title (en)

Combustion engine provided with a starter and a current generator

Title (de)

Verbrennungsmotor mit Anlasser und Stromgenerator

Title (fr)

Moteur à combustion interne muni d'un démarreur et d'un générateur de courant

Publication

EP 0619427 B1 19960612 (EN)

Application

EP 94102473 A 19940218

Priority

IT TO930233 A 19930406

Abstract (en)

[origin: EP0619427A1] Internal combustion engine for motor vehicles provided with at least one starter and one current generator connected to the drive shaft in order to start the engine and to generate the necessary electric energy for the engine to work, wherein the starter and the current generator are replaced by a brushless permanent magnet electric motor. <IMAGE>

IPC 1-7

F02N 11/04

IPC 8 full level

F02N 11/04 (2006.01)

CPC (source: EP)

F02N 11/04 (2013.01)

Citation (examination)

- US 5097140 A 19920317 - CRALL FREDERICK W [US]
- EP 0233738 A1 19870826 - LUCAS IND PLC [GB]

Cited by

EP1048845A1; GB2347401A; GB2347401B; EP1112885A1; FR2803251A1; ES2163994A1; CN1110625C; US10677212B2; US10473081B1; US10330070B2; US10293804B2; US10487791B1; US10724491B2; US10184442B2; US11015564B2; US10436167B1; US10886817B2; US10505415B2; US10574116B2; US10036359B2; US10408184B1; US10480476B2; US10544772B2; US10605217B2

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