

Title (en)

Switch mode ignition coil driver and method.

Title (de)

Geschalteter Zündspulentreiber und Methode.

Title (fr)

Circuit d'attaque en commutation pour bobine d'allumage et méthode.

Publication

EP 0566335 A3 19941102 (EN)

Application

EP 93302809 A 19930408

Priority

US 86815492 A 19920414

Abstract (en)

[origin: EP0566335A2] A switch mode ignition coil driver includes a means (113) for sensing flyback voltage (195) at the primary winding (103) of the ignition coil (102), and providing a flyback sense voltage (118) indicative of the flyback voltage (195). A means (147) senses current (193) in the primary winding (103) of the ignition coil (102) and provides a current sense voltage (149) indicative of the sensed primary winding current (193). Control means (105,119,129,137,151) is coupled to the means (113) for sensing flyback voltage (195) and the means (147) for sensing current for providing an increasing current through the primary winding (103) of the ignition coil (102) when the flyback sense voltage (118) exceeds a predetermined limit and decreasing this current through the primary winding (103) of the ignition coil (102) when the current sense voltage (149) exceeds another predetermined limit. Further, a corresponding method is disclosed. <IMAGE>

IPC 1-7

F02P 3/05; **F02P 3/055**

IPC 8 full level

F02P 3/05 (2006.01); **F02P 3/055** (2006.01); **F02P 17/10** (2006.01)

CPC (source: EP)

F02P 3/053 (2013.01); **F02P 3/0554** (2013.01); **F02P 17/10** (2013.01)

Citation (search report)

- [XA] US 4944281 A 19900731 - SUQUET MICHEL [FR]
- [XA] GB 2024941 A 19800116 - BOSCH GMBH ROBERT
- [PA] EP 0526219 A2 19930203 - MOTOROLA INC [US]
- [A] EP 0447975 A1 19910925 - MARELLI AUTRONICA [IT]

Cited by

CN111852718A; KR100869186B1; KR100853053B1; CN112912612A; EP1885051A3; US6792926B2; US6799564B2; WO02099272A1; WO02099273A1; EP1885051A2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0566335 A2 19931020; **EP 0566335 A3 19941102**

DOCDB simple family (application)

EP 93302809 A 19930408