

Title (en)
MULTIPLE SPARK ELECTRONIC IGNITION SYSTEM

Publication
EP 0147678 A3 19860702 (EN)

Application
EP 84114676 A 19841203

Priority
US 55792283 A 19831205

Abstract (en)
[origin: EP0147678A2] A multiple-spark electronic ignition system producing a timed sequence of a plurality of ignition sparks per cylinder compression cycle of an internal combustion engine. The system includes: a trigger pulse signal source; a control circuit that generates a plurality of timed ignition signals for each of the trigger pulses, preferably 3 to 20 signals, the frequency of the timed ignition signals being a function of the RPM of the engine; and an amplifying circuit which transforms the timed sequence of ignition pulses into a timed series of high energy ignition sparks.

IPC 1-7
F02P 9/00

IPC 8 full level
F02P 3/01 (2006.01); **F02P 9/00** (2006.01); **F02P 15/10** (2006.01)

CPC (source: EP)
F02P 9/002 (2013.01); **F02P 15/10** (2013.01)

Citation (search report)

- [X] FR 2316453 A1 19770128 - KYBERNA GMBH [DE]
- [Y] US 3302058 A 19670131 - OTTEMAN JOHN H, et al
- [Y] US 4131100 A 19781226 - MERRICK JAMES W
- [A] FR 2167425 A5 19730824 - CASCARINO MARCEL [FR]
- [A] US 3334619 A 19670808 - PENN THOMAS C
- [A] US 3926557 A 19751216 - CALLIES DIETER, et al
- [A] FR 2348376 A1 19771110 - BOSCH GMBH ROBERT [DE]
- [A] GB 1603631 A 19811125 - PIRANHA IGNITION LTD
- [A] DE 2753355 A1 19790607 - BOSCH GMBH ROBERT
- [A] US 3898971 A 19750812 - LEFEVRE ROBERT P

Cited by
GB2256456A; ES2130089A1; EP0305348A1; US4947810A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0147678 A2 19850710; EP 0147678 A3 19860702; AU 3742085 A 19850626; JP S61500623 A 19860403; KR 850700151 A 19851025; WO 8502657 A1 19850620; ZA 849480 B 19850731

DOCDB simple family (application)
EP 84114676 A 19841203; AU 3742085 A 19841205; JP 50443784 A 19841205; KR 850700148 A 19850731; US 8401983 W 19841205; ZA 849480 A 19841205