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(54) **Ignition control device for an internal combustion engine electronic ignition system.**

(57) A device for controlling an electronic engine ignition system (2) comprising a coil (3), the primary winding (4) of which is connected between a reference voltage and ground via a switch block (5), and the secondary winding (6) of which is connected between the electrode of a spark plug (7) and ground. The device comprises means for detecting, for the spark of each operating cycle, signals relative to the energy at the spark plug; means for computing engine speed; means for comparing the energy of the plug with optimum values for each engine speed; and means for controlling charging of the primary winding via a signal resulting from the above comparison, and for driving the switch block, so as to control energy supply to the plug for the spark of the next cycle. Further, the detected spark signals are used to diagnose the ignition system and an user is informed by indicating means of a fault condition.

EP 0 555 851 A3

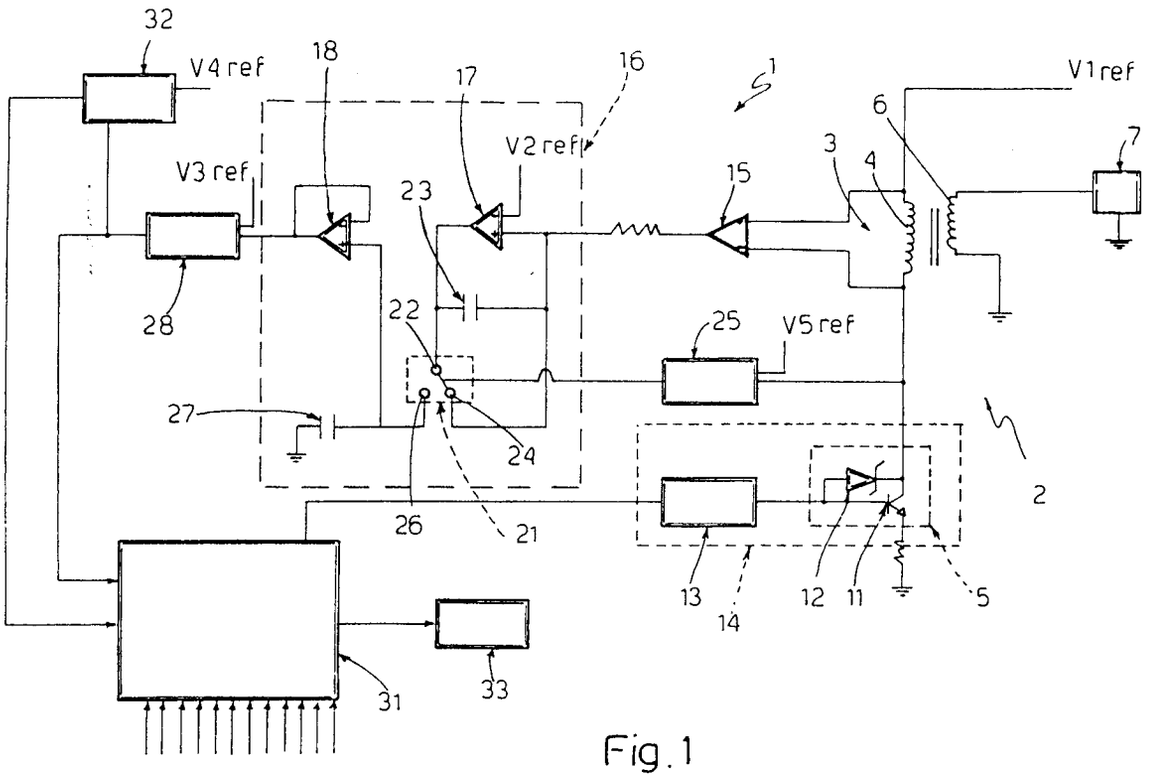

32
V4 ref
18
17
16
1
V1 ref
6
7
V2 ref
3
4
V3 ref
23
15
28
22
25
V5 ref
27
24
2
26
21
13
14
12
11
5
31
33

Fig. 1

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EUROPEAN SEARCH REPORT

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EP 93 10 2158

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
X Y	US-A-5 054 461 (DEUTSCH ET AL) * abstract; claims; figures * ---	1,2,9 3-8	F02P3/04 F02P3/045 F02P3/05
Y A	US-A-4 380 989 (TAKAKI) * the whole document * ---	3-8 1	F02P17/00
A	EP-A-0 281 528 (MARELLI AUTRONICA S.P.A.) * column 4, line 25 - line 53; figures * ---	1	
A	DE-A-27 59 154 (ROBERT BOSCH GMBH) * the whole document * -----	1	

TECHNICAL FIELDS SEARCHED (Int.Cl.5)
F02P

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	9 May 1994	Michels, J

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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