(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 067 046**
A3

(12) # EUROPEAN PATENT APPLICATION

(21) Application number: **82302877.4**

(22) Date of filing: **03.06.82**

(51) Int. Cl.³: **F 02 D 17/04**

(30) Priority: **06.06.81 GB 8117389**

(43) Date of publication of application:
15.12.82 Bulletin 82/50

(88) Date of deferred publication of search report: **13.04.83**

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

(71) Applicant: **KYSOR INDUSTRIAL (GREAT BRITAIN) LTD.**
Bridge Works North Street
Whitworth Lancashire OL12 8RJ(GB)

(72) Inventor: **Harrison, Roger**
300 Moorland View Shawforth
Rochdale Lancashire(GB)

(74) Representative: **Massey, Alexander et al,**
MARKS & CLERK Scottish Life House Bridge Street
Manchester, M3 3DP(GB)

(54) **A maximum speed control device.**

(57) A maximum speed control device for limiting the top speed of an internal combustion engine, comprising means (21) for supplying fuel to the engine, a throttle control (20) linked to the fuel supply means (21) by a cable (18), means (1) for monitoring the speed of the engine, means (3) for providing an output when the speed of the engine exceeds a predetermined limit, and means for automatically reducing the supply of fuel to the engine in response to said output. The means for automatically reducing the supply of fuel to the engine comprises means (11, 13 and 16) for increasing the effective length of the throttle cable (18) in response to said output, thereby reducing the supply of fuel, until such time as the engine speed falls below the said predetermined limit and said output ceases.

EP 0 067 046 A3

./...

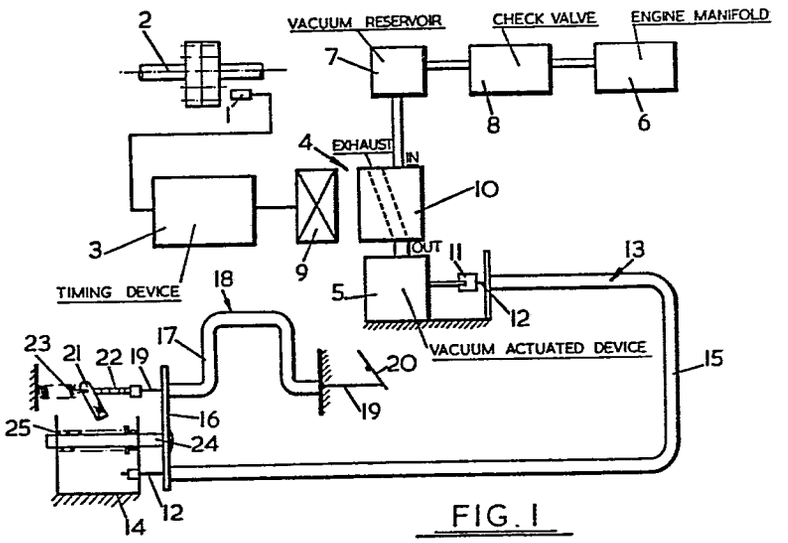
2
VACUUM RESERVOIR
CHECK VALVE
ENGINE MANIFOLD
7
8
6
1
4
EXHAUST
IN
10
3
9
OUT
11
13
TIMING DEVICE
18
5
12
17
VACUUM ACTUATED DEVICE
23
21
22
19
20
15
19
16
25
24
12
14

FIG. 1

European Patent Office

EUROPEAN SEARCH REPORT

0067046
Application number

EP 82 30 2877

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. ³)
X	CH-A- 529 637 (SCHEU) * column 1, lines 1-3, 25-32; column 2, lines 35-40; column 3, lines 1-12, 21-37; column 4, lines 1-4 *	1,2,3	F 02 D 17/04
X	GB-A-1 583 548 (LUCAS) * page 1, lines 11-16; page 2, lines 15-28, 72-130; page 3, lines 1-9 *	1,2,3	
D,X	GB-A-2 045 475 (FIDUS CONTROLS) * abstract; page 1, lines 45-75; page 2, lines 82-108; page 5, lines 100-117; page 7, lines 3-31; figure 10 *	1,3,4, 5,6	
X	FR-A-2 242 567 (WERNETTE) * page 1, lines 1-3, 20-30; page 3, lines 38-40; page 4, lines 1-20 *	1,3	TECHNICAL FIELDS SEARCHED (Int. Cl. ³) F 02 D
A	GB-A-1 549 178 (TANNER ELECTRONIC SYSTEMS TECHNOLOGY) * page 2, lines 115-130; page 3, lines 1-14, 29-44 *	5,6,9, 10	
A	GB-A-1 519 960 (CHRYSLER) * page 1, lines 10-70; page 2, lines 94-129 *	1,3,5, 6	

-/-

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	05-01-1983	JORIS J.C.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO Form 1503 03 82

European Patent Office

EUROPEAN SEARCH REPORT

0067046
Application number

EP 82 30 2877

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. ³)
A	US-A-2 313 000 (HAUGEL) * page 1, left-hand column, lines 50-55; right-hand column, lines 1-55; page 2, left-hand column, lines 1-11 *	1,2,3, 5,6	
A	US-A-2 671 542 (ROBNETT) * column 1, lines 31-40; column 6, lines 71-75; column 7, lines 1-75; column 8, lines 1-37 *	5	
A	GB-A-1 028 042 (SERRUYS) * page 3, lines 94-112; figure 4 *	5	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	05-01-1983	JORIS J.C.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO Form 1503 03 82