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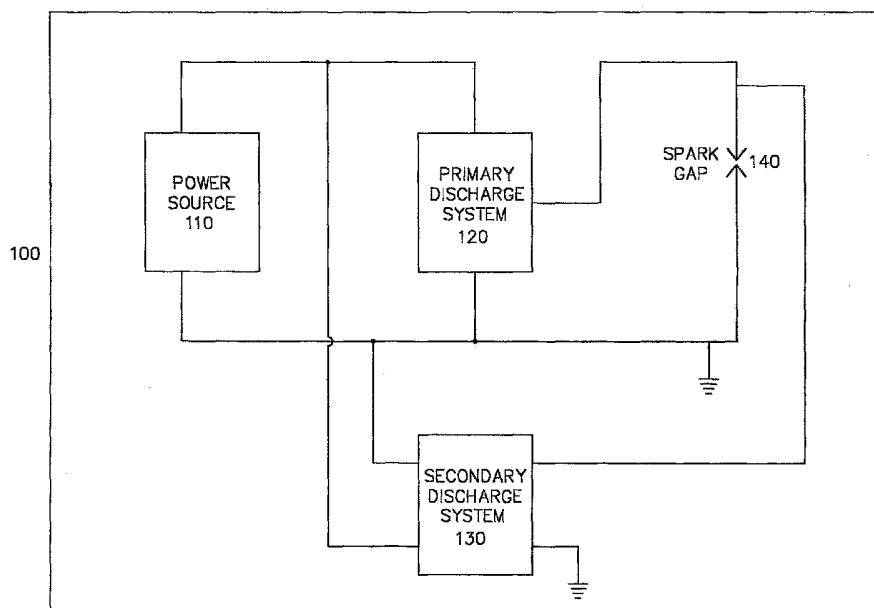
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(54) Title: AN AUXILIARY CAPACITIVE DISCHARGE IGNITION SYSTEM CONFIGURABLE TO PROVIDE ADDITIONAL ENERGY AT A SPARK GAP AND METHODS THEREOF



(57) Abstract: An auxiliary capacitive discharge ignition system configurable to provide additional energy at a spark gap during ignition in combustion engines is disclosed. The main components of the ignition system are a power source (110), a primary discharge system (120), a secondary discharge system (130) and a spark gap (140). The system is also capable of being implemented in multi-cylinder engines.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IN04/00130

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : F02P 3/08

US CL : 123/559, 600, 608, 618, 620, 653-656; 315/209R

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 123/559, 600, 608, 618, 620, 653-656; 315/209R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


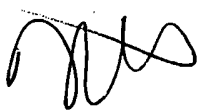
**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,035,838 A (TOZZI et al) 14 March 2000 (14.03.2000), column 9, lines 3-48.	1
X, P	US 6,609,507 B2 (Wilkinson) 26 August 2003 (26.08.2003), column 4 lines 16-67.	1
X, P	US 6,666,195 B2 (Vogel et al) 23 December 2003 (23.12.2003), column 3, lines 19-58.	1
A	US 6,305,365 B1 (Maeoka et al) 23 October 2001 (23.10.2001), Figure 3.	1-41
A	US 5,193,515 A (Oota et al) 16 March 1993 (16.03.1993), Figure 1.	1-41

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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