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(54) Title: SMALL DIAMETER/LONG REACH SPARK PLUG

(57) Abstract: A spark plug (10) having an elongated ceramic insulator (12) includes numerous design features in various strategic locations. At least the ground electrode (26) is fitted with a rimmed, hemispherical metallic sparking tip (56) which controls rogue electrical arcing (62) and facilitates attachment techniques due to increased surface contact with the ground electrode (26). The various features of the spark plug (10) cooperate with one another so that the physical dimensions of the spark plug (10) can be reduced to meet current demands of newer engines without sacrificing mechanical strength or performance.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/1542

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01T 13/20 (2007.10)

USPC - 313/141

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)

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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)

PatBase, Google Patent Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,310,430 B1 (MORIYA) 30 October 2001 (30.10.2001) entire document	1-14

Further documents are listed in the continuation of Box C.

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