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(71) Applicant (for all designated States except US): **CON-TOUR HARDENING, INC.** [US/US]; 8401 Northwest Boulevard, Indianapolis, IN 46278 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **STORM, John, M.** [US/US]; 1241 North County Road 200 West, Danville, IN 46122 (US).

(74) Agents: **DURLACHER, James, M.** et al; Woodard, Emhardt, Moriarty, Mcnett & Henry LLP, 111 Monument Circle, Suite 3700, Indianapolis, IN 46204 (US).

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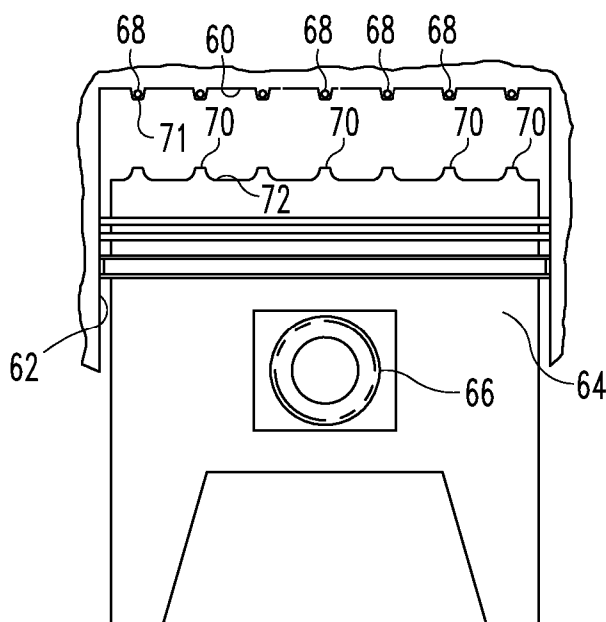
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(54) Title: INDUCTION DRIVEN IGNITION SYSTEM



(57) Abstract: An induction driven ignition system with an electrode projecting into the combustion chamber of a reciprocating internal combustion engine. The electrode is adjacent to but electrically insulated from an electrical conductor which receives current at frequencies between 100 to 400 kHz. Thermal insulation is also provided between the electrode and adjacent structure of the head. The induction driven ignition system causes the electrodes to rapidly and accurately heat up to very high temperatures. The electrodes may be formed in elongated edges throughout the combustion chamber to provide combustion initiation over a wide area.

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INTERNATIONAL SEARCH REPORT

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A CLASSIFICATION OF SUBJECT MATTER

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USPC - 123/638

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
USPC - 123/310, 634 635, 636, 169CA, 169EL, 169E, 169P, 162, 156, 143A, 659, 671, 193 6 (text search - see terms below)**Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)**

PubWEST(USPT,PGPB,EPAB,JPAB), Google Scholar, Google Patents

Search Terms induction, ignition, electrode, electrical, thermal, Insulating, conduction, ferrous, coil, element, electromagnetic, sheath, housing

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6,152,095 A (Ripma et al) 28 November 2000 (28 11 2000), Fig 1 and 2, col 2, ln 19-22, col 4, ln 29-32	1-2 and 4-6
Y	US 4,439,707 A (Hatto π et al) 27 March 1984 (27 03 1984), Fig 1	1
Y	US 5,979,399 A (Piock et al) 09 November 1999 (09 11 1999), Fig 1, col 6, ln 55-67	2 and 6
Y	US 5,913,960 A (Fletcher-Jones) 22 June 1999 (22 06 1999), Fig 1a and 1b, col 1, ln 44-47 and col 2, ln 36-37	3 and 6
Y	US 2005/0215160 A1 (Kolp) 29 September 2005 (29 09 2005), Fig 6	3
Y	US 4,808,878 A (Kashiwara β et al) 28 February 1989 (28 02 1989), Fig 2, col 2, ln 48-58	4
Y	US 2,456,080 A (Pe) 14 December 1948 (14 12 1948), col 2, ln 4-7	5

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* Special categories of cited documents

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn ISA/US, Commissioner for Patents
P O Box 1450, Alexandria, Virginia 22313-1450

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Authorized officer

Lee W Young

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