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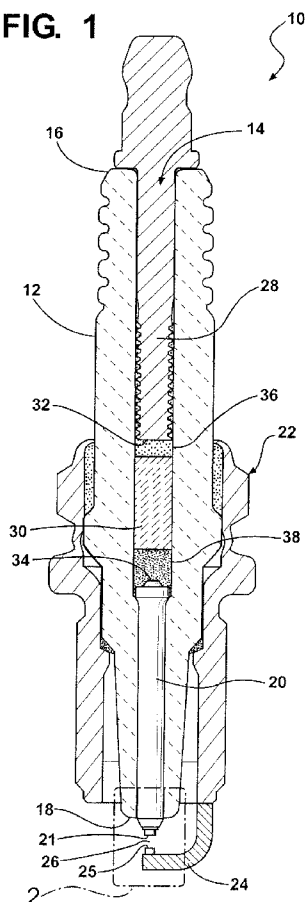
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(54) Title: SPARK IGNITION DEVICE FOR AN INTERNAL COMBUSTION ENGINE AND SPARKING TIP THEREFOR

FIG. 1



(57) Abstract: A spark ignition device is provided having an electrode sparking tip constructed from an AuPd alloy with the addition of at least 3 wt.% of a precious metal element selected from at least one of platinum, iridium, rhodium and ruthenium. The gold counteracts oxidation of the palladium and the additional elements provide the sparking tip with high temperature and high strength mechanical properties and resistance to alloying with the combustion constituents during use.





HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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INTERNATIONAL SEARCH REPORT

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PCT/US2009/044432**A. CLASSIFICATION OF SUBJECT MATTER****H01T 13/20(2006.01)i, F02P 15/02(2006.01)i**

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)

H01T 13/20; C22C 19/05; C22C 19/07; C22C 38/18; H01T 13/00

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

Korean utility models and applications for utility models since 1975.

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

eKOMPASS(KIPO internal) & Keywords:spark, ignition, tip, alloy

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0030116 A1 (Joseph et al.) 07 February 2008 See abstract; Fig 1; [0049]-[0053]	1-20
A	US 2008-0050264 A1 (Lykowski et al.) 28 February 2008 See abstract; Fig 1; [0016]-[0028]	1-20
A	US 2007-0290591 A1 (Lykowski et al.) 20 December 2007 See abstract; Fig 1; [0024]-[0037]	1-20
A	US 2007-0290593 A1 (Kowalski) 20 December 2007 See abstract; Figs 1-3; [0025]-[0034]	1-20



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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