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54 Apparatus for initiating combustion of fuel-air mixtures in an internal combustion engine.

57 The invention relates to an apparatus for igniting the combustion of fuel-air mixtures in an internal combustion engine, comprising an electrical circuit including a capacitor (100, 108, 115) for storing a quantity of electrical energy, a discharge device having a pair of spaced electrodes (104, 120) forming a gap (118) across which an electrical discharge channel of alternating electrical current may be established for initiating said combustion using electrical energy stored in said capacitor (100, 108, 113), and a pair of electrical conductors for electrically connecting said capacitor (100, 108, 113) with said electrodes (104, 120) for forming the discharge channel, said capacitor (100, 108, 113) and said conductors being arranged concentrically around a common axis. In this apparatus an insulator body (114) is disposed between said electrodes (104, 120) and said capacitor (100, 108, 113) and between said conductors.

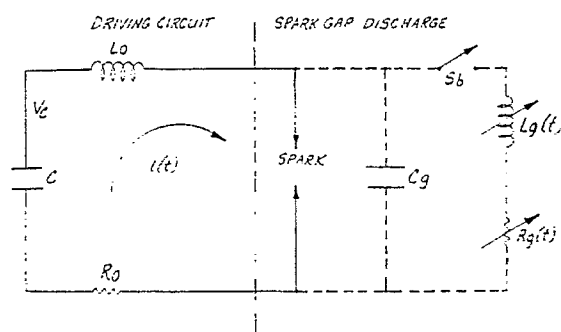


Fig-1

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EUROPEAN SEARCH REPORT

Application Number

EP 90 11 7487

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.5)
A	GB-A-9 945 25 (GENERAL MOTORS LTD) * The whole document * - - - -	1,2,4	F 02 P 9/00 H 01 T 13/40 H 01 T 13/20
A	FR-A-1 307 681 (LODGE PLUGS LTD) * The whole document * - - - -	1,2,4	
A	DE-A-2 363 804 (HOLTIN et al.) * Figure 3 * - - - -	1	
A	GB-A-2 032 516 (HUANG YU-FEI) * The whole document * - - - -	4,5	
A	GB-A-1 521 313 (M.E. LINDSAY) * Figures 1-5; page 3, lines 27-51 * - - - -	6	
A	US-A-2 820 087 (SUTER) * Figures 2,3,5,6 * - - - -	7,8	
P,A	EP-A-0 118 789 (ROBERT BOSCH) * Figures 1,2; claims 1-5 * - - - - -	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 02 P H 01 T
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 03 January 91	Examiner LEROY C.P.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>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</div> <div>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</div>			