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⑤¹ Int. Cl.⁵: **F02P 3/045** , **F02P 7/03**

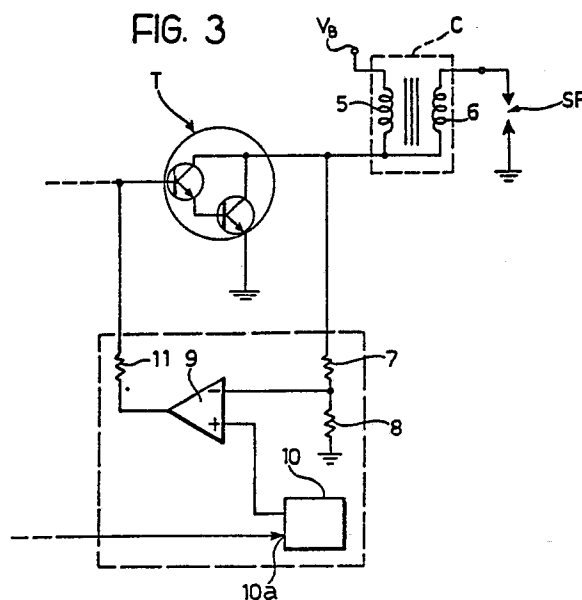
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(54) An ignition system for an internal combustion engine for motor vehicles, particularly of the static-distribution type.

0 323 412 A3 (57) The invention relates to an ignition system, particularly of the static-distribution type, in which a respective ignition coil (C) with a primary winding (5) and a secondary winding (6) is coupled to the sparking plug (SP) associated with each cylinder. The system includes a respective switching transistor (T) for each ignition coil (C) and control circuit devices (4, 7 - 11) which, in order to generate a spark in a plug (SP), cause a first switching of the corresponding transistor (T) from the shut-off condition to the conducting condition to start the flow of current in the primary winding (5) of the associated coil (C), and a second switching to the shut-off condition to stop the flow of current in the coil (C), causing the striking of the spark. These control circuit devices (4, 7 - 11) are arranged to control the speed of the first switching of the transistor or transistors (T) concerned from time to time, for each ignition, so that the first switching takes place gradually at a speed less than a predetermined value. The amplitude of the voltage peak which is applied to the sparking plug (SP) in correspondence with the first switching is thus drastically reduced.





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.4)
Y	US-A-4 290 406 (IYODA et al.) * Figure 5; column 4, line 1 - column 7, line 23 *	1	F 02 P 3/045 F 02 P 7/03
A	---	2-5	
Y	US-A-3 905 347 (LAPEYRONNIE) * Figure 5; column 1, lines 57-60 *	1	
A	---		
A	US-A-3 940 658 (M.V. ALLRED) * Front page; figure 2; column 2, line 48 - column 4, line 20 *	1-5	
A	---		
A	FR-A-2 552 602 (TELEFUNKEN) ---		
A	GB-D-2 099 252 (R. BOSCH) -----		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 02 P
Place of search THE HAGUE		Date of completion of the search 03-01-1990	Examiner LEROY C.P.
CATEGORY OF CITED DOCUMENTS			
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 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	