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54 Centrifugal advance mechanism.

57 A centrifugal advance mechanism has a plurality of rotating weights (5) which travel under centrifugal force outwardly from an axis of a driving shaft (1) against the action of resilient means (11) urging the weights inwardly. The weights carry driving cam members (6) which interact by cam action with a driven cam member (8) which is thereby driven in rotation by the weights. The relative rotational position of the driven cam member (8) and the driving shaft (1) is thus determined by the radial position of

the weights relative to the driving shaft (1). To improve performance of the mechanism under rapid rotational speed fluctuations, by means of the geometry of the weights (5) and the interacting cam surfaces of the driving and driven cam members (6,8), the inertial force of (a) the weights (5) and (b) the driven cam member (8) arising upon angular deceleration of the driving shaft (1) is controlled so as to have no outward action on the weights (5) over at least a part of the outward travel of the weights.

FIG. 1

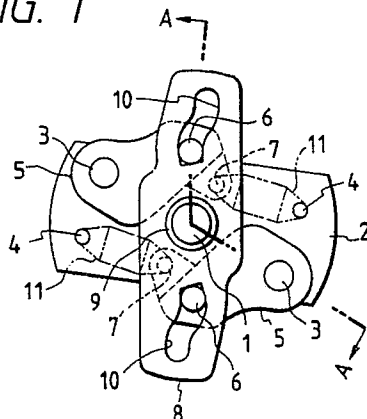
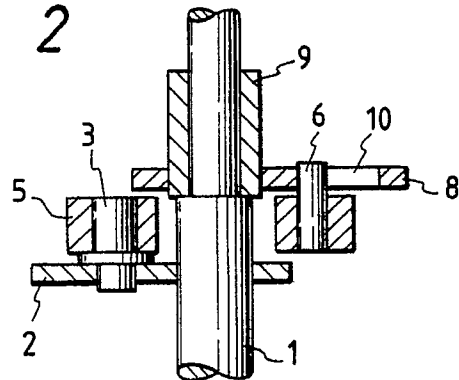


FIG. 2



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EUROPEAN SEARCH REPORT

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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)
X	PATENT ABSTRACTS OF JAPAN vol. 2, no. 30 (M-77)(7864), 24 February 1978; & JP-A-52149529 (MITSUBISHI) 12.12.1977 - - -	1,2,7	F 02 P 5/06
A	idem - - -	10,17-19	
X	PATENT ABSTRACTS OF JAPAN vol. 2, no. 30 (M-77)(7864), 24 February 1978; & JP-A-52149530 (MITSUBISHI) 12.12.1977 - - -	1,2,7	
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E	PATENT ABSTRACTS OF JAPAN vol. 13, no. 582 (M-911)(3930), 21 December 1989; & JP-A-1244164 (MITSUBISHI) 28.09.1989 - - - - -	1,2,7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 02 P
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of search 07 November 90	Examiner NOVELLI B.
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			