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EUROPEAN PATENT APPLICATION

21 Application number: 86302601.9

51 Int. Cl.³: H 01 H 19/24

22 Date of filing: 08.04.86

30 Priority: 08.04.85 JP 72738/85

43 Date of publication of application:
29.10.86 Bulletin 86/44

88 Date of deferred publication of search report: 08.02.89

84 Designated Contracting States:
AT BE DE GB SE

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54 Energy storage apparatus for a load tap selector.

57 An energy storage apparatus for a load tap selector has a rotating input frame 13 which is concentrically disposed with respect to a rotating output frame 12 to which is connected an output shaft 13 which operates a load switching movable contact. The input frame and the output frame each have a pair of flanges 14-17 which extend in opposite radial directions and which overlap one another in the radial direction. An energy storage spring 4 which is disposed between the flanges has engaging members 18, 19 secured to opposite ends which are capable of releasably engaging with recesses formed in the flanges. When the input frame is rotated from a first position to a second position while the output frame is restrained in the first position, one end of the spring is restrained by engagement with the flanges on the output frame while the other end of the spring is moved together with the input frame by engagement with the flanges on the input frame, thereby stretching the spring and storing energy. When the restraint of the output frame is released, the energy which was stored in the spring is released and the output frame and the output shaft are rotated at a high speed to operate the load switching movable contact.

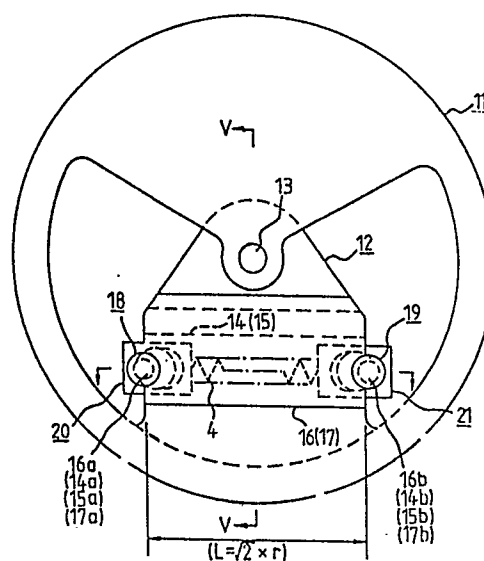


FIG. 4.



European Patent
Office

EUROPEAN SEARCH REPORT

0199494

Application Number

EP 86 30 2601

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-3 153 188 (WAGNER ELECTRIC) * Column 3, line 38 - column 4, line 57; figure 1 * ---	1	H 01 H 19/24
Y	US-A-3 213 214 (HITACHI) * Figure 3 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 H 9/00 H 01 H 119/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22-11-1988	Examiner JANSSENS DE VROOM P.J.
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			