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(54) **Cantilever-mounted sliding expanding shaft**

(57) The invention relates to an axially sliding expanding shaft, of the type rotatably mounted in cantilever fashion on a support structure of a winding/unwinding machine, comprising a main shaft (12) coupled with an expanding cylinder (11) provided with extractable gripping elements apt to retain the core of a reel mounted on the expanding shaft, and rod means (21), which is

arranged longitudinally inside the main shaft and the expanding cylinder (11) and is free in rotation with respect to these latters, and which is mounted stationary in rotation and is apt to cooperate with an adjusting portion of the expanding cylinder/main shaft assembly and with an adjusting element, whereby it is able to cause the sliding of the expanding cylinder (11).

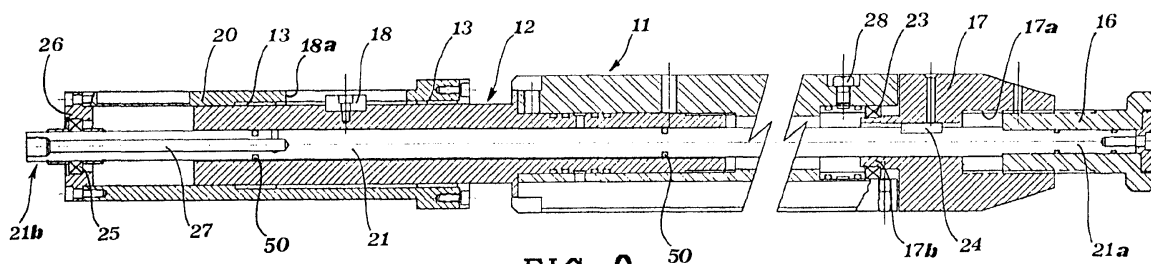


FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 May 2000	Examiner Haaken, W
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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