

EUROPEAN PATENT APPLICATION

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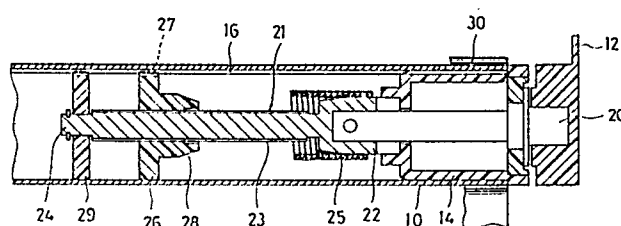
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Screen-positioning device for use in roll blind.

A screen-positioning device for use in a roll blind comprising a fixed shaft (20) sustained by a bracket (12) for rotatably supporting the screen-roll (10), an extension shaft (21) secured to the fixed shaft (20) and formed with a drum portion (22) and a screw-bolt (23), a torsional spring (25) having one end thereof fixed to the drum portion (22) and the other end loosely turning around the screw-bolt portion (23), a screw-nut (26) mounted on the screw-bolt portion (23) and formed with a conical surface (28) for fitting engagement with the spring (25). When the screen (30) is raised to a predetermined height, the conical surface (28) is so engaged with the free end portion of the spring (25) that the spring (25) is caused to tighten on the drum portion (22). Whenever the screw-nut (26) is engaged with the spring (25), it undergoes a spring-back force to be rotated in the direction in which the screen (30) is lowered.

The fixed shaft (20) is supported by the bracket (12) with the intervention of a one-way clutch mechanism comprising a brake drum (38) secured to the bracket (12), a brake coil spring (36) wound around the brake drum (38), a sector (34) secured to the fixed shaft (20) and fitted on the brake coil spring (36), a slit (35) formed in the periphery of the sector (34) to receive opposite ends (36a, 36b) of the brake coil spring (36), a dial-ring (40) loosely fitted on the sector (34) and provided with an inner projection (41) put in between

the both ends (36a, 36b). The roll-up height of the screen is determined by an axial position of the screw-nut (26) on the screw-bolt portion (23). The axial position is easily adjusted by the use of the dial-ring (40), which is rotatable together with the fixed shaft (20) or extension shaft (21) to move the screw-nut (26) along the screw-bolt portion (23).





European Patent
Office

EUROPEAN SEARCH REPORT

0210381

Application number

EP 86 10 7630

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)
D,A	JP-Y-58 021 919 (METAKO KIGYO KK) * figures 1, 3 *	1	E 06 B 9/20
A	--- US-A-4 482 137 (J.A. GAVAGAN et al.) * figures 1, 3 *	1	
A	--- EP-A-0 046 949 (TOSO K.K.) * complete document *	4	

			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			E 06 B 9/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 30-04-1987	Examiner KRABEL A.W.G.
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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