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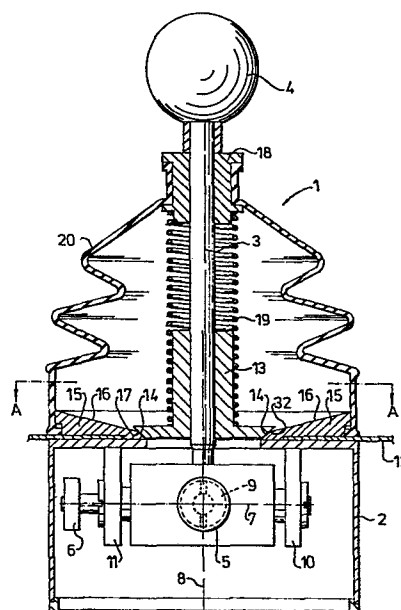
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⑤④ **Device at multi-way lever.**

⑤⑦ A device at a multi-way lever, so-called 'joy-stick', comprised for example in a manipulator, comprising a housing (2) and projecting therefrom a control lever (3), which at its end located in the housing is hinged. According to the invention, a sleeve (13) is mounted concentrically about the lever (3), which sleeve (13) at one end is provided with a conic surface (14) intended by action of a spring force on the sleeve (13) to abut a plate (15) with a slide surface (16). The slide surface (16) includes a portion (17) with a conic surface so formed that the conic surface (14) of the sleeve upon abutment to the conic surface of the slide surface (16) is centered with respect to the slide surface to a non-operative position. By the invention a sturdy and simple device is obtained, which simply can be modified with respect to the force required for moving the lever (3) from its non-operative position. Modifications of the cross-sectional profile of the slide surface (16) yield different characteristics with respect to said force required.





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# EUROPEAN SEARCH REPORT

0043809  
Application number  
EP 81 85 0121

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> )
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	FR - A - 2 400 250 (SCHMIDT) * Page 4, lines 8-13; figure 2 *	1	G 05 G 9/04
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A	US - A - 3 550 466 (HAM) * Column 4, lines 58-65; figure 2 *	1	
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A	US - A - 3 827 313 (KIESSLING)		
A	US - A - 3 095 754 (MAYON)		TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )
EA	EP - A - 0 023 864 (DAVID)		G 05 G B 25 J G 12 B
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			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
<input checked="" type="checkbox"/> The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search The Hague		Date of completion of the search 26-01-1982	Examiner NADELHOFFER