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Applicant: **Uwatoko, Iwao**
27-19, 3 Chome Nishida
Kagoshima-shi Kagoshima-ken(JP)

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Inventor: **Uwatoko, Iwao**
27-19, 3 Chome Nishida
Kagoshima-shi Kagoshima-ken(JP)

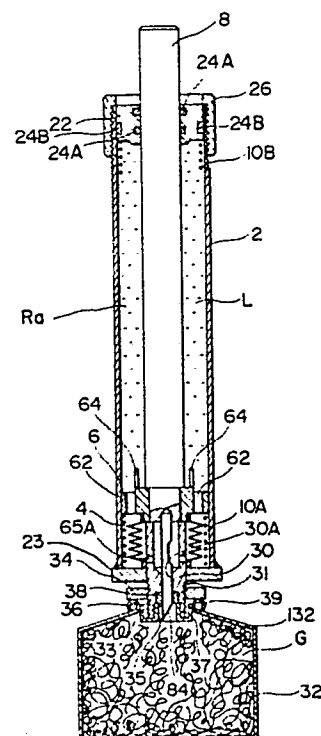
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Representative: **Calderbank, Thomas Roger et al**
MEWBURN ELLIS & CO. 2/3 Cursitor Street
London EC4A 1BQ(GB)

A thermally responsive actuator.

A thermally responsive actuator comprises a barrel (2) which is disposed in an atmosphere in which temperature changes take place. There is a slidable piston (6) within the barrel (2), and a thermally expansive material (6) sealed in the barrel (2), which causes the piston (6) to slide by thermal expansion and thermal contraction due to temperature changes. An extension rod (8) is secured to the piston (6) which slides together with the piston (6). Spring means (10) between relative slide members within the barrel (2) act to cancel the starting frictional force created on the sliding faces.

FIG. 1



EP 0 272 037 A3



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)
X	FR-A-1 194 861 (A. & N. CONTRACTORS LTD) * Page 1, last two paragraphs; page 2, left-hand column, lines 1-11,30-end; figure 1; page 2, right-hand column, lines 12-29 in particular; figures 4,5 *	1,6,7,8	G 05 D 23/12 E 05 F 15/20 F 24 F 11/053
X	DE-A-2 437 456 (LICENTIA PATENT-VERWALTUNGS-GmbH) * Page 2, last paragraph; page 3, paragraphs 1,2; figure *	1,2,6,7	
A	---	8	
X	US-A-3 313 336 (DE PALMA) * Column 1, line 48-end; column 2, lines 1-8,22-end; figure 1 *	1,2,6	
A	GB-A-2 016 676 (DALLOW)		
A	GB-A- 27 449 (ARNDT)(A.D. 1913)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 24 F 11/00 E 05 F 15/00 G 05 D 23/00 A 62 C 3/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-12-1988	Examiner KAPOULAS T.
CATEGORY OF CITED DOCUMENTS		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	
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			