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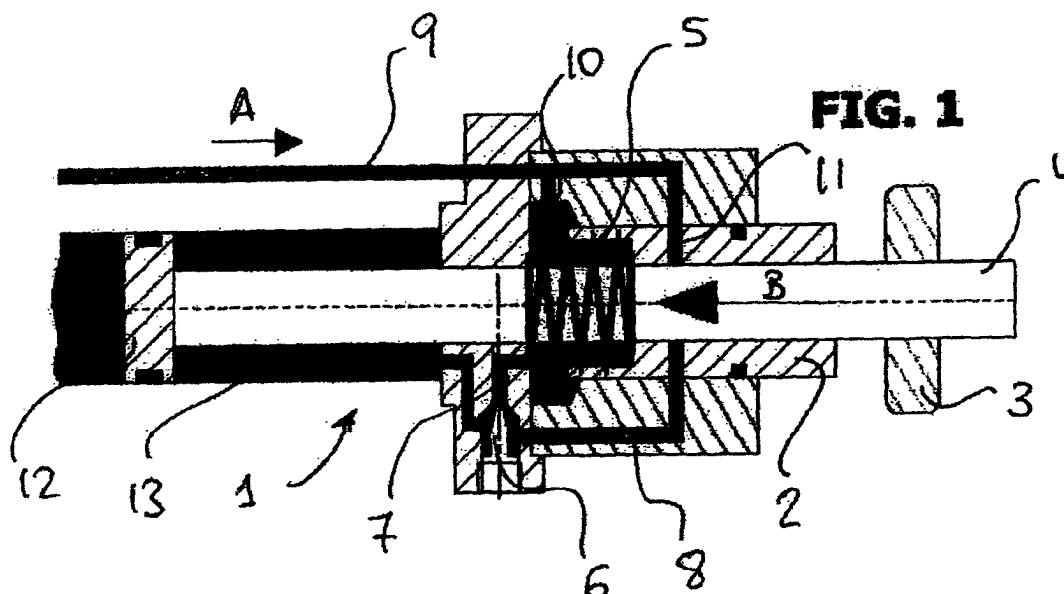
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(54) **Door opening and closing device**

(57) The device comprises a fluid dynamic cylinder (1) for driving the door opening and closing movement and means for damping said movement when the door nears its final open or closed position, and it is characterised in that said damping means comprise a telescopic body (2) and a moveable thrust washer (3) on the rod (4) of said fluid dynamic cylinder (1), said washer (3)

being able to be fixed on said rod (4) in the desired position, so that when said washer (3) abuts with the telescopic body (2), it moves it and damps the door opening or closing movement.

It enables easily adjusting the damping means, as this can be done by simply moving the thrust washer along the cylinder rod.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 38 0055

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.7)
X	US 3 967 539 A (WILLIAMSON ROBERT E) 6 July 1976 (1976-07-06) * column 4, line 44-62; figures 1,2 * ----	1	F15B15/22 F15B15/24 F15B11/046
X	US 4 151 978 A (FREI ROGER E) 1 May 1979 (1979-05-01) * column 3, line 16-55; figures 1,2 * ----	1,2	
X	US 2 587 182 A (LIVERS CARLOS B) 26 February 1952 (1952-02-26) * column 3, line 51-63; figures 1,2 * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F15B E05F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29 April 2004	Examiner Rechenmacher, M
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
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 38 0055

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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29-04-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82