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## EUROPEAN PATENT APPLICATION

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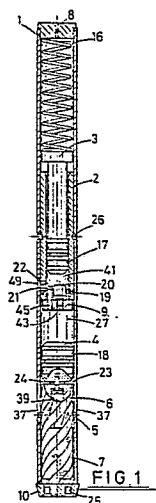
⑯ Designated Contracting States: DE ES FR IT

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⑯ **Door operating mechanism.**

⑯ The invention provides a door operating mechanism which can be mounted on the pivot axis of a door. The mechanism comprises a casing 1 in which is guided axially a piston 4, and actuating member 6 therefor. Coupled to the actuating member is a pivot member 7. A compact construction results where the actuating member (6) and pivot member (7) have complementary helical fingers (29; 33) whereby rotation of the pivot member (7) gives rise to axial movement of the actuating member (6) and piston (4). The axial movement in one direction causes hydraulic fluid acting on the piston (4) be pressurised which provides a return force acting on the piston (4). This can be used to return a door to a starting position from which it has been displaced. By having fluid acting on the piston (4) instead of a spring, failure of the fluid system does not give rise to slamming of the door which is the case where the fluid merely serves as a damping medium for movement of the door. The construction renders its self-adaptable to automatic operation.





EP 87 30 6766

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	DE-A-2 214 676 (F. SCHWARTE FITSCHENFABRIK DORNA BAUBESCHLAG GmbH) * Figure; page 7, line 6 - page 8, line 5 *	1,2,5,6	E 05 F 3/20 E 05 F 3/04						
X	DE-A-2 447 012 (VERIN AG) * Figures 2-4; page 1, lines 6-12; page 13 *	1,2							
A	---	3							
A	EP-A-0 166 285 (DORNA BAUBESCHLAG GmbH) * Figure 7; page 11, lines 19-28; page 16, line 11 - page 19, line 27 *	5,6,9, 10							
A	DE-A-2 645 853 (OKABE METAL INDUSTRIAL CO.)	-----							
TECHNICAL FIELDS SEARCHED (Int. Cl.4)									
E 05 F									
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>07-03-1988</td> <td>SCHEIBLING C.D.A.</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	07-03-1988	SCHEIBLING C.D.A.
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THE HAGUE	07-03-1988	SCHEIBLING C.D.A.							
CATEGORY OF CITED DOCUMENTS		<p>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      .....      &amp; : member of the same patent family, corresponding          document</p>							
<p>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</p>									