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(54) **Concealed door closer with adjustable back check**

(57) A concealed door closer (10) with an adjustable back check includes a mount (20), a pivot unit (30) mounted to the mount, two damping units (40) connected with the pivot unit, two flow adjusting valves (50a, 50b) mounted in the mount, and a back check adjusting valve (60) mounted in the mount. An external force for opening door drives the pivot unit to rotate so as to actuate the damping units to move. The back check exerting on the door leaf

during opening door can be adjusted subject to different conditions by controlling the position of the back check adjusting valve. As soon as the external force exerting on the door leaf for opening the door leaf is released, the door leaf will be gradually closed by the actuation of the damping units, and the speed at which the door closer closes the door can be adjusted by controlling the flow adjusting valves.

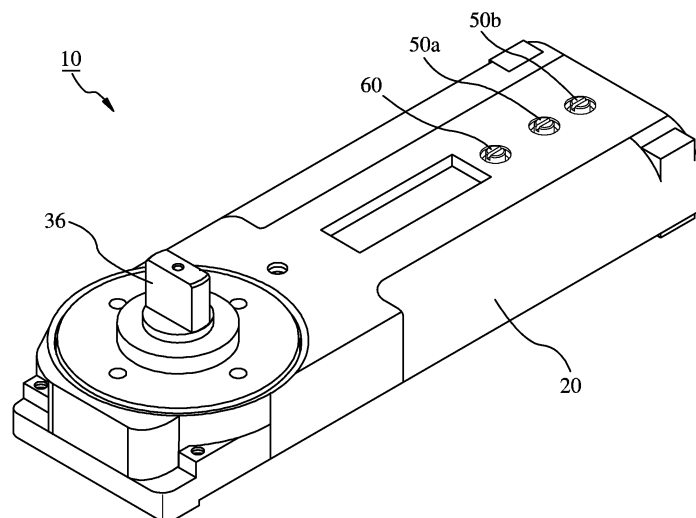


FIG.1



EUROPEAN SEARCH REPORT

 Application Number
 EP 11 16 6327

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	* column 4, line 11 - column 6, line 4; figures 4-7 * * column 7, line 53 - line 64 *	7	
A	EP 0 606 168 A1 (EMHART INC [US] CORBIN RUSSWIN INC [US]) 13 July 1994 (1994-07-13) * abstract; figures 5,6 *	1-7	
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		18 June 2014	Berote, Marc
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			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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