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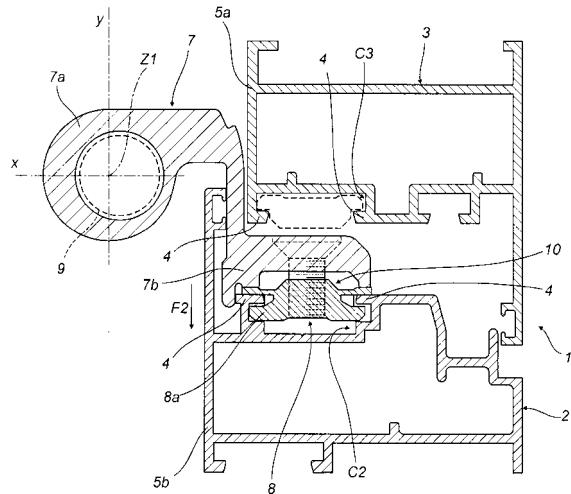
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(54) Hinge for doors or windows.

(57) Described is a positioning device for heavy doors or windows with a fixed frame (3) and a sash (2), each having a profile which forms a longitudinal groove (C3, C2) consisting of a pair of opposite "L"-shaped protrusions (4); the fixed frame and the sash (3, 2) are fastened to one another by two hinge units (GCI, GCS), lower and upper. Each hinge unit (GCI, GCS) comprises: a first, lower hinge body (6), having a first cylindrical socket (6a) and a first flap (6b); a second, upper hinge body (7), having a second cylindrical socket (7a) and a second flap (7b); means (8) for fixing the first and second hinge bodies (6, 7) respectively to the fixed frame and the sash (3, 2), comprising a block (8a), housed inside the corresponding groove (C3, C2), and which can be connected to the respective flap (6b, 7b) in such a way as to lock it in place; a hinge pin (9) which can be housed inside the sockets (6a, 7a) and defining a vertical axis of rotation (Z1, Z2) for each hinge unit (GCI, GCS); on the first or the second hinge body (6, 7) of the lower hinge unit (GCI) there being a spacer component (10) inserted between the respective flap (6b, 7b) and the pair of protrusions (4) in such a way that it modifies the position, that is to say, moves the hinge body (6, 7) away from the fixed frame or sash (3, 2), so that in practice it makes the position of the vertical axis of rotation (Z1) of the lower hinge unit (GCI) and the vertical axis of rotation (Z2) of the upper hinge unit (GCS) coaxial.

FIG. 4





DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
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A	EP 0 616 104 A1 (METRA METALL TRAFILATI ALLUMIN [IT]) 21 September 1994 (1994-09-21) * column 2 - column 4; claim 1; figure 3 *	1-11	
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			TECHNICAL FIELDS SEARCHED (IPC)
			E05D
<p>The present search report has been drawn up for all claims</p> <p>1</p>			
Place of search	Date of completion of the search	Examiner	
Munich	25 September 2007	Balice, Marco	
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			

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

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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. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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