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(54) **Hinging device for windows and doors**

(57) A hinging device for windows and doors including a fixed frame (12) and a movable frame (14), comprising:

- a first support element (24) to be fastened to the fixed frame (12) and bearing a main axis of articulation (38),
- a second support element (26) to be fastened to the movable frame (14),
- a main lever (42) articulated to the first support element (24) around the main axis (38),

- a secondary lever (60) slidably articulated to the first support element (24) and articulated to an intermediate region (45) of the main lever (42), and
- a connecting rod (76) having an end (78) articulated to the second support element (26).

The first support element (24) bears an elongated articulation pivot pin (36) and the main lever (24) has an articulation portion (50) which extends parallel to the main axis of articulation (38) and engages the pivot pin (36) at least at its end regions.

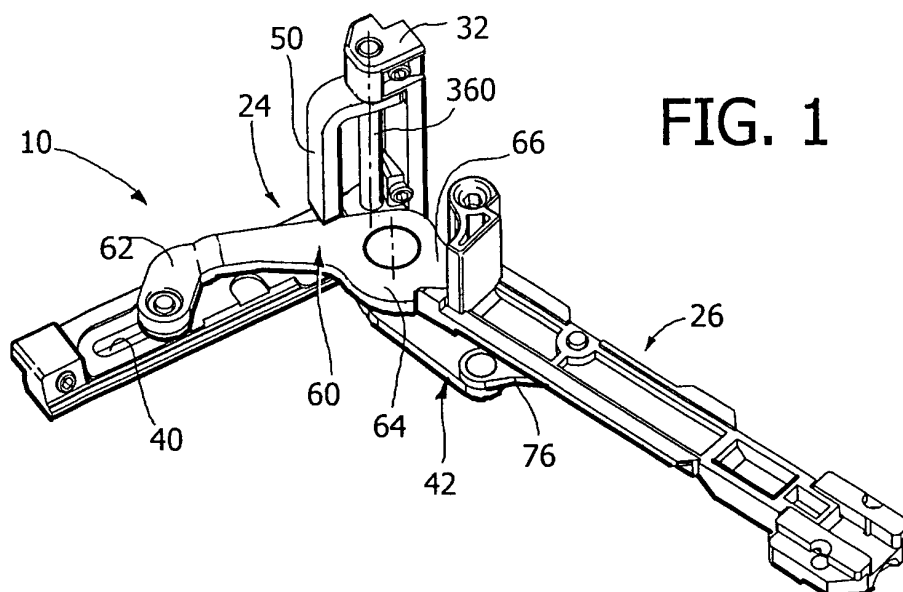


FIG. 1



European Patent
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EUROPEAN SEARCH REPORT

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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|--|--|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
| A | EP 0 385 414 A (BILSTEIN AUGUST GMBH CO KG [DE]) 5 September 1990 (1990-09-05) * column 3, line 22 - line 39; figure 3 * ----- | 1 | INV. E05D15/52 |
| | | | TECHNICAL FIELDS SEARCHED (IPC) |
| | | | E05D |
| The present search report has been drawn up for all claims | | | |
| Place of search The Hague | | Date of completion of the search 22 November 2007 | Examiner Guillaume, Geert |
| <p>CATEGORY OF CITED DOCUMENTS</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> <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 & : member of the same patent family, corresponding document</p> | | | |

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