

Title (en)
Adjustable hinge for window or door frames

Title (de)
Einstellbares Scharnier für Fenster- und Türrahmen

Title (fr)
Charnière réglable pour cadres de fenêtre ou de porte

Publication
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Application
EP 12179517 A 20120807

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Abstract (en)
The present invention refers to an adjustable hinge (10) for window or door frames comprising at least one first wing body (11) fixable to the fixed frame of a window or door frame and at least one second wing body (12) fixable to the mobile frame of a window or door frame, or vice versa, which are mutually articulated in a rotating manner around a rotation axis (A) through a pin (13), first adjusting means (23) for adjusting the relative position of the first wing body (11) with respect to the second wing body (12) along a first adjustment direction (X) which is parallel to the plane of the window or door frame and orthogonal to the rotation axis (A), in which the first adjusting means (23) comprise a first bushing (26) which supports an end portion (13a) of the pin (13) and which is housed in a mobile manner inside a cavity (27) which is defined in one of the first wing body (11) and the second wing body (12) and which has two faces opposite one another and parallel to the first adjustment direction (X), in which, moreover, one of the two faces has a toothing (28) which extends parallel to the first adjustment direction (X) and with which a corresponding toothing engages (29) which is defined on one portion of the outer lateral surface of the first bushing (26), and in which the first bushing (26) is manoeuvrable in rotation from the outside and the rotation of the first bushing (26) and with it that of the pin (13) generate a displacement of sole translation along the first adjustment direction (X) between the first wing body (11) and the second wing body (12), and is characterised in that the first bushing (26) has a portion in contact with the other one of the two faces of the cavity (27), wherein the contact portion is yielding on the plane orthogonal to the rotation axis (A). Such contact portion is made up of an insert element (30) which is associated with the first bushing (26) and which has in the cross section an arched-crown-sector shape which partially embraces the first bushing (26) so that between it and the faced portion of the outer lateral surface of the first bushing (26) there is a free space (S).

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Citation (applicant)

- IT TO990520 A 19990616
- IT FI20080180 A 20080919
- EP 1455042 A1 20040908 - MASTER SRL [IT]
- EP 1314844 A1 20030528 - HAPS & SOHN GMBH & CO KG [DE], et al
- EP 0837206 A2 19980422 - SIMONSWERK GMBH [DE]
- EP 0467075 A1 19920122 - HAHN GMBH & CO KG DR [DE]
- EP 0992647 A2 20000412 - GIESSE SPA [IT]

Citation (search report)

- [A] EP 0992647 A2 20000412 - GIESSE SPA [IT]
- [A] DE 202004013848 U1 20060119 - HAHN GMBH & CO KG DR [DE]

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