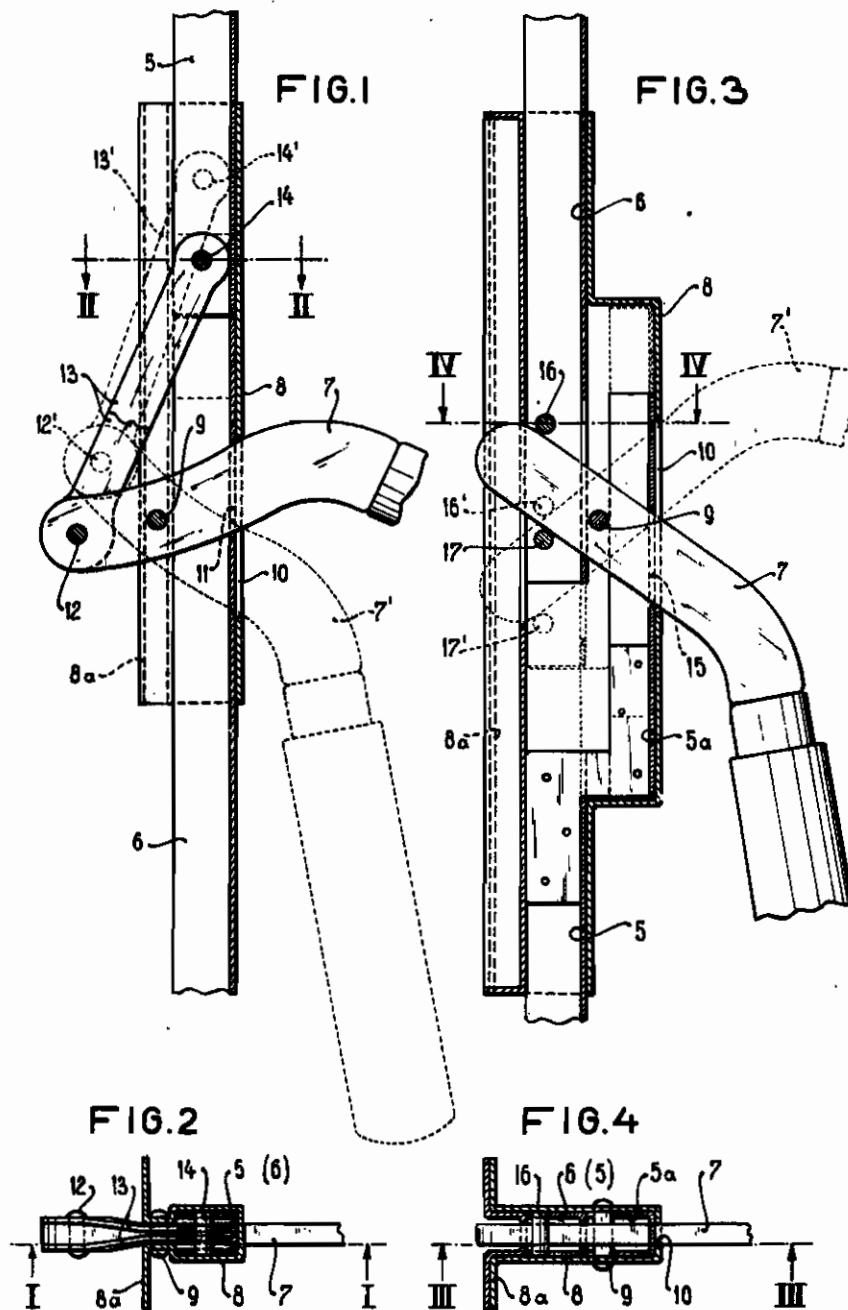


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FASTENING DEVICES FOR CASEMENT
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FASTENING DEVICES FOR CASEMENT WINDOWS, DOORS AND THE LIKE

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This invention relates to fastening devices for casement windows, doors and the like, of the type comprising two substantially aligned espagnolette bolts adapted to be simultaneously shot (and retracted) in opposite directions by means of suitable actuating mechanism.

The main object of the invention is a fastening device of this type, which, owing to the extreme simplicity of its bolt actuating mechanism, is very cheap to manufacture and occupies very little space. With this object in view, the bolts have a U-shaped or similar hollow section, whereas the actuating hand lever is pivoted behind one of the bolts and projects through an aperture thereof so as to be adapted to exert pressure on an edge of said aperture to thereby move the bolt in either direction, the second bolt being coupled, directly or through a connecting rod, to that portion of said lever which extends behind said pivot.

In order that my invention may be fully understood, I shall describe, by way of example, two embodiments thereof with reference to the annexed drawing, in which:

Fig. 1 is a longitudinal sectional elevation of one embodiment of the invention,

Fig. 2 is a cross-sectional view along the line II—II in Fig. 1,

Fig. 3 is a longitudinal sectional elevation of a second embodiment of the invention, and

Fig. 4 is a cross-sectional view along the line IV—IV in Fig. 3.

The fastening device shown in Figs. 1 and 2 comprises two aligned bolts 5 and 6 adapted to be moved towards and from one another by means of an actuating hand lever 7 hinged on a pivot 9. This pivot is secured to the side walls of a casing

8, into which the adjacent ends of the bolts project. The front wall of the casing has an elongated aperture 10 for the passage of the lever 7.

Each bolt consists of a length of U-section, whose web and flanges have a sliding fit with the front wall and with the side walls, respectively, of the casing. The web of bolt 8 is provided with an elongated aperture 11, through which the lever 7 passes, said aperture being sized as to allow the lever to freely move between its extreme positions. Behind the pivot 9, the rear portion of the lever, which projects from the casing, is hinged as at 12 to one end of a pair of parallel coupling rods 13, the other end of which is pivoted, through a pin 14, to the inner end of bolt 5.

The post of the window frame or the like, to which the flanges 8a of the casing are to be secured, should have a suitable recess to accommodate those portions of the lever 7 and of the coupling rods 13, which project from the rear of the casing.

In the embodiment shown in Figs. 3 and 4, the inner end of bolt 5 has an offset portion 5a extending, in parallel relation with and just in front of the inner portion of bolt 6, within the correspondingly shaped casing 8. The web of said offset portion has an aperture 15, through which and through an opening 10 in the front wall of the casing the actuating lever 7 passes. The pivot 12 of said lever is situated intermediate the offset portion 5a and the second bolt 6. The rearwardly extending end portion of lever 7 projects into the space between two abutment pins 16 and 17 secured to the flanges of bolt 6 so as to directly engage the latter when moving in either direction.

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