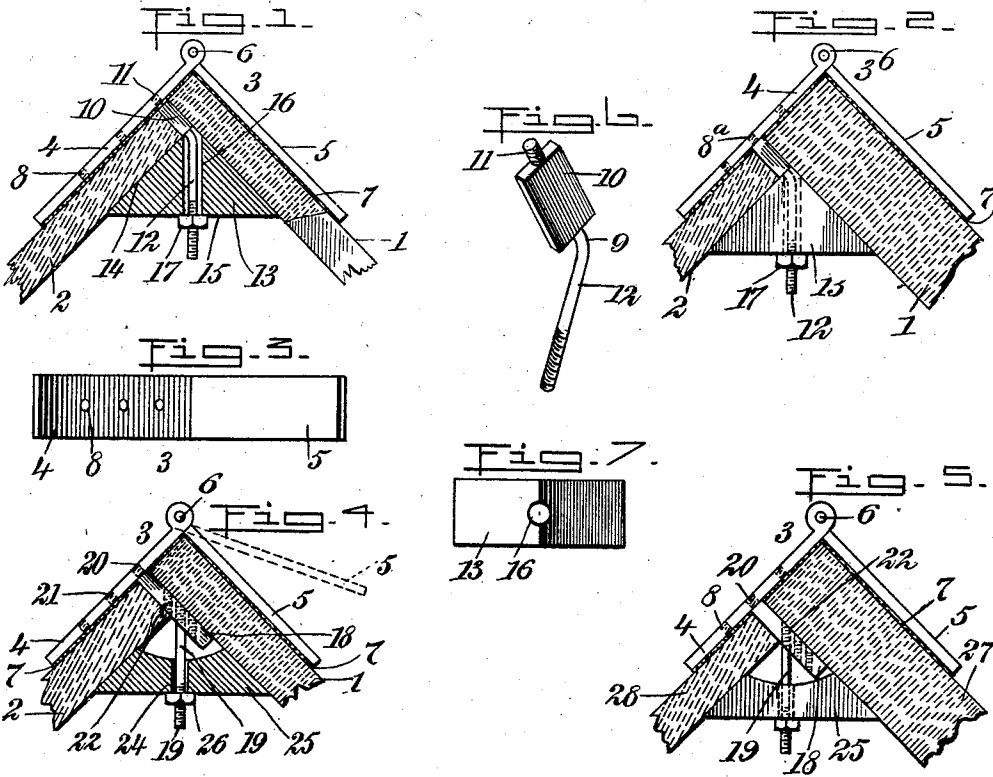


No. 869,236.

PATENTED OCT. 29, 1907.

S. I. FEINBERG.
FASTENING CLAMP.
APPLICATION FILED AUG. 10, 1904.



WITNESSES:

C. A. Javis.

F. D. Ammer

INVENTOR

Sachary I. Feinberg

BY

Mumma
ATTORNEYS

UNITED STATES PATENT OFFICE.

SACHARY I. FEINBERG, OF NEW YORK, N. Y., ASSIGNOR TO SARAH FLANDERS, OF NEW YORK, N. Y.

FASTENING-CLAMP.

No. 869,236.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed August 10, 1904. Serial No. 220,278.

To all whom it may concern:

Be it Known that I, SACHARY I. FEINBERG, a citizen of the United States, and a resident of the city of New York, (borough of Manhattan,) in the county and State of New York, have invented a new and Improved Fastening-Clamp, of which the following is a full, clear, and exact description.

My invention relates to fastening devices or clamps for attaching objects by their edges.

10 While the invention is intended to be used especially for the purpose of connecting plate glass, such as is used in plate glass windows, show cases, etc., it is intended to have a general usefulness for attaching plates of any kind, building blocks, etc.

15 The object of the invention is to provide a simple device which is inexpensive and easily applied.

A further object is to provide a device which may be applied without seriously mutilating the objects which it connects.

20 The invention consists in the construction and combination of parts to be more fully described hereinafter and definitely set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a horizontal section taken through a corner formed by two plates of glass connected by one of my devices; in this view the plates of glass are represented as of substantially the same thickness; Fig. 2 is a view similar to Fig. 1, but representing plates of different thicknesses connected together; Fig. 3 is an elevation of the body of the fastening device shown in Fig. 1; Fig. 4 is a view very similar to Fig. 1, but representing a modified construction of the device facilitating its adjustment to varying thicknesses of plates; Fig. 5 is a view similar to Fig. 4, representing the device in an altered position and connecting plates of different thicknesses; Fig. 6 is a perspective view of a clamping stud used in connection with the device and representing the same as detached; Fig. 7 is an elevation of a clamping block constituting a part of the invention.

Referring more particularly to the parts, and especially to Fig. 1, 1 and 2 represent a pair of plates which may be of glass, the same being set edge to edge, overlapping as shown, and disposed substantially at right angles to each other. The fastening device or clamp consists of an outer corner piece or clip 3, which comprises a pair of elongated leaves 4, 5, and these are connected by means of a stiff hinge joint 6. The inner faces of the leaves 4 and 5 are preferably covered with

a suitable lining 7 of felt or similar material, in order to protect the glass and increase the nicety or snugness of the connection. The leaf 4 is provided with a plurality of openings 8 which are preferably threaded as shown, in order to facilitate the attachment of a stud 9. This stud has preferably a flat body 10 adapted to be received in the space between the plates, and this body is provided with a reduced tip 11 which is threaded, as shown, and received in any of the openings 8. Beyond the body 10 the stud 9 comprises a shank 12, which is bent as shown, so that when applied, in practice, the body of the stem disposes itself substantially upon a line bisecting the angle included between the plates. In the present instance this angle is 90°.

In the angle between the plates, a clamping block 13 is received, the same having substantially the form shown, presenting faces 14, which rest against the inner faces of the plates. As shown, the block is substantially triangular in form, presenting a face 15, disposed substantially at right angles to the direction of the stem or shank 12. This block 13 is provided with a centrally disposed opening 16, through which the stem 12 passes as shown. The stem is threaded in order to receive a nut 17 which firmly clamps the device in position as will be readily understood.

In Fig. 2, the device is represented as attaching plates of different thicknesses; in order to adapt the device to these circumstances, the stud 9 is removed to a suitably located opening 8^a, the clamping block 13 being attached in the same manner as that described in connection with Fig. 1.

In the preferred form of the device illustrated in Fig. 4, the outer clip or corner piece 3 is of the same form as that shown in Figs. 1 and 2. The body 18 of the stud 19, however, is of a different form. This body 18 is provided as before with a threaded tip 20, which may be attached in any one of a plurality of threaded openings 21, formed in the leaf 4. The body 18 is further provided with a plurality of inclined openings 22, in one of which the stud 19 is removably mounted. This stud passes through an opening 24 in a clamping block 25, the said block being secured in position by a suitable nut 26. With this form the inner portion or vertex of the block is preferably cut away as indicated. Where it is desired to connect the plates at an angle which is greater than a right angle, the leaves 4, 5 may be adjusted to suit this angle, as indicated by the dotted outline representing the leaf 5 in such an altered position. A special block in practice would be then applied, having its ends cut to the new angle.

In Fig. 5, the device shown in Fig. 4 is represented as connecting two plates 27, 28, which are of different

thicknesses as shown. When applied in this instance, the body 18 of the clamping stud would be attached at a suitable point, and the stud 19 will be adjusted upon the body 18 as illustrated, occupying the opening 22 most appropriate for making the connection.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. A device of the class described comprising in combination, a member having angularly disposed leaves adapted to engage the outer faces of two plates, a stud attaching to one of said leaves, means for adjusting the position of said stud upon the same, said stud being adapted to pass through the space between adjacent edges of said plates and having a shank disposed in the angle between said plates, and a clamping block connected by means of said stud and abutting the inner faces of said plates.

2. In a device of the class described, in combination, a corner clip having extensions adapted to abut the outer faces of two adjacent plates, one of said extensions having a plurality of openings disposed longitudinally therein, a detachable stud seating in said openings and having an extension lying in the angle between said plates, and

a clamping block attached to said extension and abutting the inner faces of said plates.

3. In a device of the class described, in combination, an angle clip having extensions adapted to abut the outer faces of two meeting plates, a stud having a body and a stem, means for adjustably securing said body to one of said extensions, means for adjustably securing said stem to said body, and a block attached to said stem and lying in the angle between said plates.

4. In a device of the class described, in combination, an angle clip comprising a pair of leaves connected by a stiff hinge joint, one of said leaves having a plurality of threaded openings disposed longitudinally therein, a stud having a body detachably seating in said openings, said body having a plurality of openings longitudinally disposed therein, a stem detachably seating in said last openings, a block having an opening receiving said stem, and means for attaching said block to said stem.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SACHARY I. FEINBERG.

Witnesses:

F. D. AMMEN,
JNO. M. RITTER.