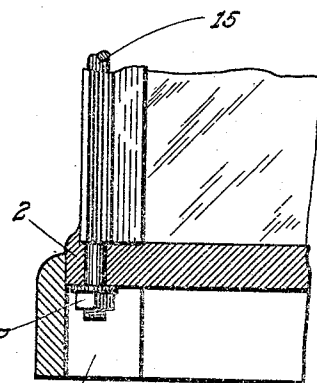
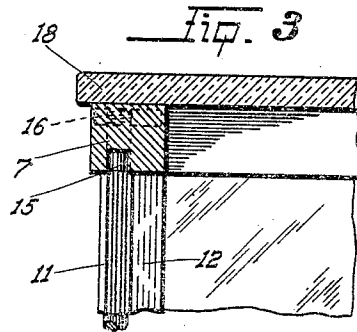
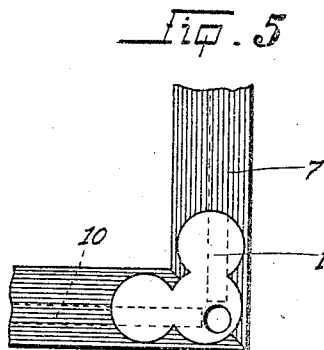
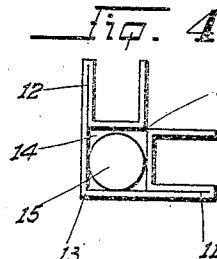
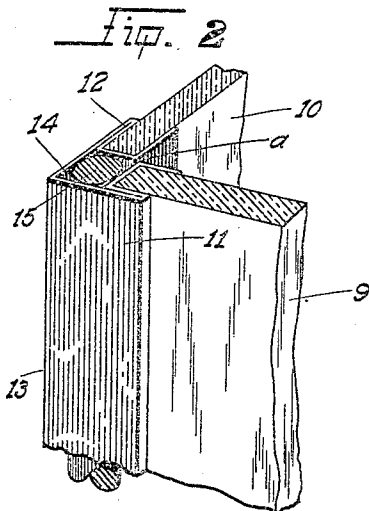
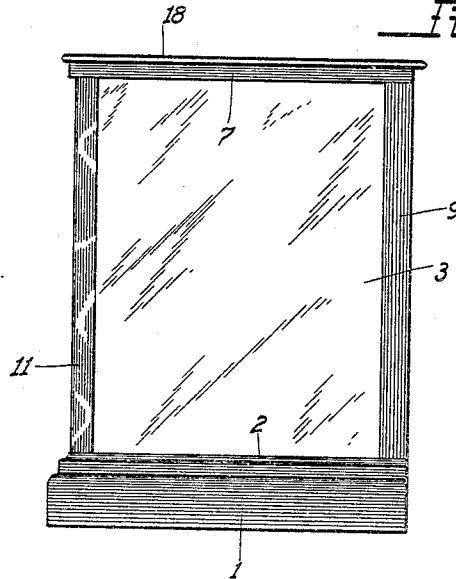


J. F. BIEREND.
SHOW CASE.
APPLICATION FILED JAN. 21, 1909.

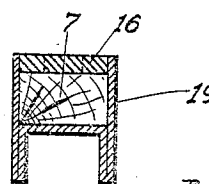
940,299.

Patented Nov. 16, 1909.

2 SHEETS—SHEET 1.



Witnesses
Frank H. Carter
[Signature]



Inventor
Joseph F. Bierend
By *[Signature]*
Attorney

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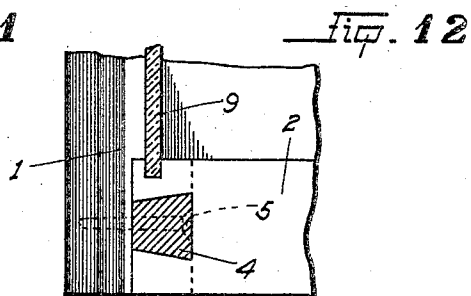
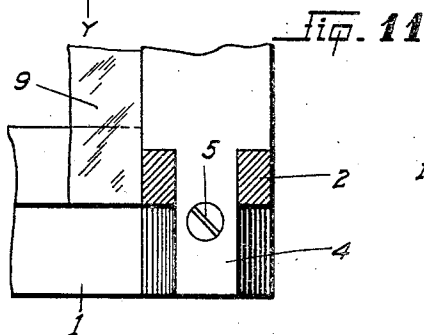
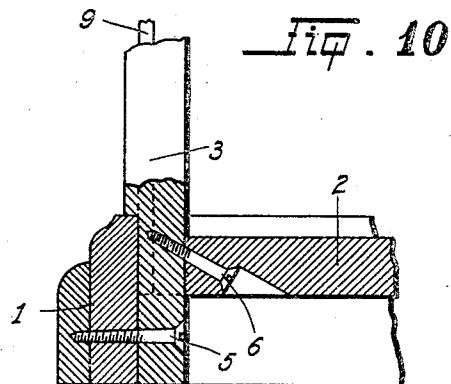
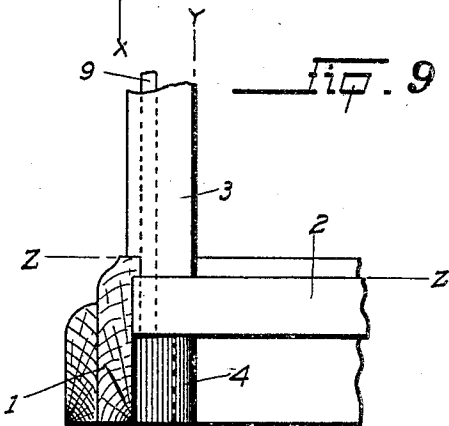
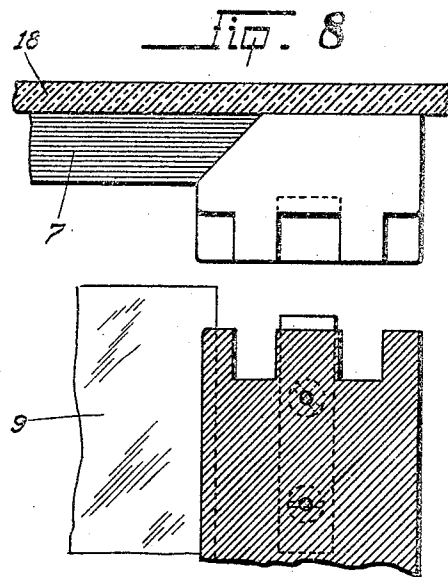
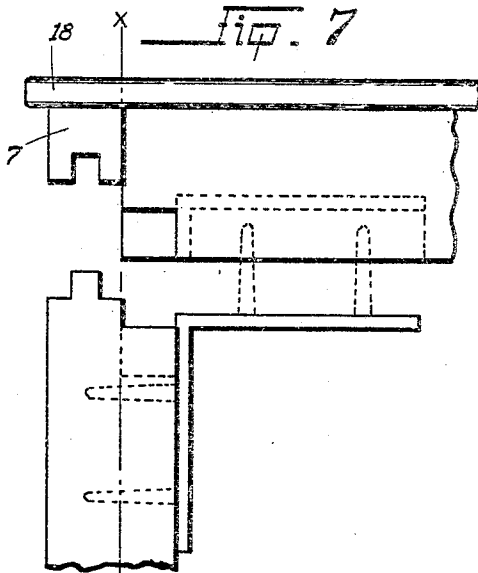
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Patented Nov. 16, 1909.

2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH F. BIEREND, OF LOS ANGELES, CALIFORNIA.

SHOW-CASE.

940,299.

Specification of Letters Patent.

Patented Nov. 16, 1909.

Application filed January 21, 1909. Serial No. 473,490.

To all whom it may concern:

Be it known that I, JOSEPH F. BIEREND, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Show-Cases; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in show cases of all characters and particularly to that class known as clamped show cases, the object of the invention being, namely, to produce an improvement upon my United States Patent No. 876,617, dated January 14, 1908, the improvements aimed at in the present application being to produce a neater, more strong and durable and less expensive device to manufacture than the structure shown in the above patent. This object I accomplish by means of a drawn metal corner clamp comprising two metal channels, disposed at right angles at their corners and having their non-adjacent sides joined by means of a projecting angle iron forming an intermediate hollow space in which is disposed a reinforcing rod secured into a plate set into the upper frame of the case and securely bolted to the lower frame; also such other and further arrangement of parts are employed as will more fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 designates a side elevation of the complete device. Fig. 2 is a perspective view of a fragmentary portion of one corner of the show case showing the clamping mechanism thereon. Fig. 3 is a perspective view of a fragmentary sectional portion of the show case showing the means of joining the corners. Fig. 4 is a top plan view of the corner clamp and reinforcing rod. Fig. 5 is a bottom plan view of a fragmentary portion of the case showing one of the upper front corners. Fig. 6 is a sectional view of a modified form of top supporting frame from that shown in Fig. 3. Fig. 7 is a fragmentary view of an upper rear corner of the

case showing the parts dissociated. Fig. 8 is a sectional view taken on a line $x-x$ of Fig. 7. Fig. 9 is a rear end view of a bottom corner joint. Fig. 10 is a similar view partly broken out. Fig. 11 is a sectional view taken on a line $y-y$ of Fig. 9. Fig. 12 is a sectional view taken on a line $z-z$ of Fig. 9.

Referring now more particularly to the characters of reference on the drawings 1 designates the bottom supporting frame of the case maintaining the floor 2 while 3 are rear supporting posts having dove-tails 4 extending through the floor 2 and screwed to the base 1 by means of screws 5 and to the floor 2 by means of screws 6. (Figs. 9, 10, 11 and 12).

At their upper ends the posts 3 are suitably mortised into a top glass maintaining frame 7 and rigidly secured therein by means of angle irons 8 screwed to the frame 7 and posts 3 (Figs. 7 and 8).

The members 2, 3 and 7 are suitably grooved for maintaining side glasses 9 and a front glass 10 in position, the front corners of said glass being clamped together in the following manner, viz:—The glasses 9 fit into metal channels 11 and the glass 10 into metal channels 12, such metal channels 11 and 12 being disposed at right angles to each other at their inner or adjacent corners as at " a "—Fig. 2. The non-adjacent sides of said metal channels 11 and 12 are rigidly joined together by means of projecting angle irons 13 which form intermediate hollow spaces 14 in which are inserted reinforcing rods 15 screwed into metal plates 16 embedded in the top frame 7 and such rods 15 also projecting through the member 2 and are maintained in position therein by nuts 17. This construction of the corner gives a strong and durable supporting surface and is cheap and easy of construction since no soldering or other similar structure is required.

Fig. 6 shows a modified form of structure for the frame 7 for use with very thick glass. In this structure the wooden frame is covered with drawn metal shaped to form the grooves for the reception of the glass. The top glass 18 is suitably cemented to the frame 7.

From the foregoing description it will be readily seen that I have produced a show case which shows a step of advancement over the art as shown in the patent above

referred to; and one which substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

10 Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:—

1. A show case comprising a top and base frame, suitable rear supports for the same, 15 front and side glasses maintained in said top and base frames, and clamps for the front corners of said glasses, such clamps comprising metal channels engaging said glasses and having their inner corners dis- 20 posed adjacent each other, projecting angle irons rigidly secured to the non-adjacent sides of said metal channels and forming intermediate recesses, plates in said top frame above said recess, rods screwed into said 25 plates and extending through said recesses and said base frame, and securing means on the lower ends of said rods, as described.

2. A show case comprising the combina-

tion of a bottom supporting frame, a floor on said frame, rear supporting posts, dove- 30 tails thereon extending through said floor, screws projecting through said dovetails into said base, screws projecting through said floor into said posts, a top frame mortised into said posts, angle irons secured to 35 said top frame and posts, front and side glasses set into said posts and base and top frames, and clamps for the front corners of said glasses, such clamps comprising metal channels engaging said glasses and having 40 their inner corners disposed adjacent each other, projecting angle irons rigidly secured to the non-adjacent sides of said metal channels and forming intermediate recesses, plates in said top frame above said recess, rods 45 screwed into said plates and extending through said recesses and said base frame, and securing means on the lower ends of said rods, as described.

In testimony whereof I affix my signature 50 in presence of two witnesses.

JOSEPH F. BIEREND.

Witnesses:

BERT H. LUKER,
FRANK L. PARK.