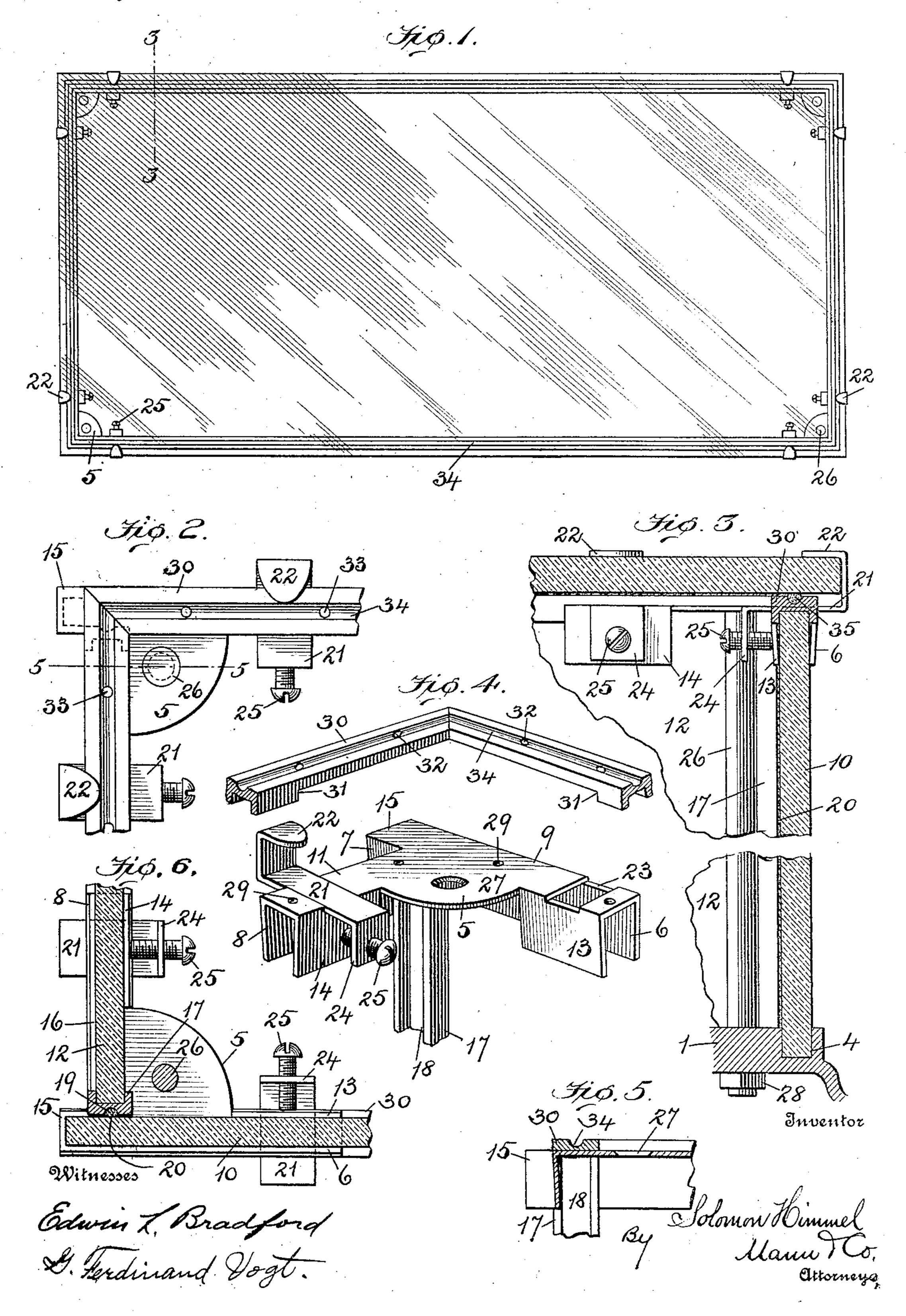
S. HIMMEL.
SHOW CASE.
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910,817.

Patented Jan. 26, 1909.



UNITED STATES PATENT OFFICE.

SOLOMON HIMMEL, OF BALTIMORE, MARYLAND.

SHOW-CASE.

No. 910,817.

Specification of Letters Patent.

Patented Jan. 26, 1909.

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To all whom it may concern:

Be it known that I, Solomon Himmel, a citizen of the United States, residing at Baltimore, in the State of Maryland, have 5 invented certain new and useful Improvements in Show-Cases, of which the following is a specification.

This invention relates to show cases and has reference to an improved construction of 10 corner fastening for securing the side, end |

and top plates together.

Some of the difficulties heretofore encountered in securing together the plates of glass show cases is in the drilling of holes to re-15 ceive bolts to hold the plates together and the consequent weakening of the plates by the drilling of the holes. Another objection heretofore present is the fact that the nuts or bolts to hold the plates together have been 20 exposed on the outside of the case and in | glass. By my invention I avoid the drilling of holes; the exposure of nuts or bolts on the outside of the case and also the contact of 25 the bolts or adjusting screws with the glass plates.

Another object of the invention is to provide an improved construction of metal corner frame for holding the glass plates to-30 gether, while another object is to provide an improved construction of adjustable clip device for retaining the top plate so that the adjusting screws thereof may not be required to bind against glass in effecting their ad-

35 justment.

With these and other objects in view the invention is illustrated in the accompanying

drawings, in which,

Figure 1 is a plan view of a show case con-40 structed in accordance with the invention. Fig. 2, is a top plan view of one corner of the metal frame ready to receive the top plate. Fig. 3, is a vertical section through the secured horizontal and vertical plates and is 45 taken approximately on the line 3-3 of Fig. 1. Fig. 4, is a perspective of the separated corner portions of the frame including the channel bar to receive the packing. Fig. 5, is a sectional detail through the frame,---50 the section being taken on line 5-5 of Fig. 2, and Fig. 6, is a bottom plan view of the devices shown in Fig. 2.

Referring to the drawing the numeral, 1, designates the bottom or base of the show case on which the lower edges of the vertical 55 front and end glass plates rest. The particular construction employed to secure or attach the lower edges of these plates is immaterial and may be varied, but in the present instance they are fitted into a channel, 4, 60 that has been provided in the base to receive them.

By reference to Fig. 4 it will be seen that the corner fastening which in the present instance is employed at each corner of the case 65 as shown in Fig. 1, comprises a horizontal metal plate, 5, having downwardly-projecting walls, 6, 7, and 8, which depend from its outer edge. The shape of this plate is similar to the letter, L in that it has a front por- 70 tion, 9, that extends parallel with the front plate, 10, of the case, and a side portion, 11, some instances are in direct contact with the | that extends at right angles to said front portion and parallel with the end plate, 12, of the case. At the inner edge, the metal 75 plate, 5, is provided with a downwardlyprojecting flange, 13, which is spaced from the wall, 6, so as to form a channel at the front portion, 9, to receive the upper edge of the front plate while a similar flange, 14, is 80 provided on the side portion, 11, to coact with the wall, 8, and thereby form a channel to receive the upper edge of the end plate, 12. The extreme corner of the plate, 5, is provided with an extension, 15, which projects 85 beyond the side portion, 11, so as to lie in a plane beyond the outer side of the wall, 8, and also the outer surface, 16, of the end plate, 12, and thereby permit the front plate, 10, to lap over and project beyond the end 90 plate, as clearly seen in the inverted view of the frame in Fig. 6.

A channel bar, 17, extends vertically beneath the metal plate, 5, and said bar is preferably formed with or attached to said plate 95 so that its channeled side, 18, will confront and have position in the same vertical plane as the channel that is formed between the walls, 8, and flange, 14. The object and purpose of this vertical channel bar at this point 100 is to provide a recess and a stop to receive the vertical edge of the end plate, 12. Opposite the channel side, the bar, 17, is provided with a vertical groove, 19, which may receive a

packing, 20, such as a cord or other material, against which the front plate, 10, may rest

when set in its permanent position.

Each of the angle or front and side por-5 tions of the corner fastener is provided with a horizontally-movable clip plate, 21, the outer ends of which turn upwardly to form a hook, 22, to engage the top plate as will presently be described. The manner of securing these 10 clip plates in place so as to permit them to slide may vary, but in the present instance I have provided notches, 23, in the upper side of the plate, 5, so that the clip plates may seat and slide in said notches and have their 15 upper surfaces flush with the upper surface of the said plate, 5, as clearly seen in Fig. 4. The inner ends, 24, of the clip plates turn down at one side of the down-turned flanges, 13, and, 14, and said ends are provided with 20 threaded perforations through which adjusting screws, 25, pass. The inner ends of these adjusting screws contact with the flanges, 13, or, 14, as the case may be, so that by turning the screws the clip plates may be made to 25 move horizontally by traveling along the screws. It will thus be seen that the inner ends of these adjusting screws do not contact with the vertical glass plates but with the flanges, 13, or, 14.

In order to hold the corner plates down on the upper edges of the vertical plates I provide a long bolt or rod, 26, which passes through a perforation, 27, in the corner plate and which depends from said plate, through the case and also through the bottom, 1, be-

neath which latter it is secured by means of a nut, 28. After the side plate has been set up on the bottom of the case, the corner plates are fitted down over the upper edge thereof and the vertical channel bar with its packing, is fitted close against the inner surface of

19, is fitted close against the inner surface of said side plate to make a dust-tight joint. The end plates may then be set up with its upper edge projecting beneath the corner plate and between the wall, 8, and flange, 14, and with its vertical edge entered in the channel, 18, of the channel bar. The bolt,

26, may then be passed through the perforation, 27, in the corner plate and through the bottom, 1, of the case and secured in position by the nut, 28. Screw-threaded perfora-

by the nut, 28. Screw-threaded perforations, 29, are provided in the corner plates, 5,

for a purpose now to be described.

Horizontal channel plates, 30, are fitted over the upper edges of the side and end plates and the ends of these plates are provided with bottom recesses, 31, which project over the upper surface of the corner plates and also over the clip plates. The research portions of these channel plates are provided with perforations, 32, which register with the perforations, 29, in the plates, 5, so that screws, 33, may be passed through the two sets of perforations and thereby hold the ends of the horizontal chan-

nel plates down on top of the corner plates. The upper side of the horizontal channel plates, or that side that is to confront the bottom surface of the top glass plate, is provided with a longitudinal groove, 34, for the 70 reception of a packing, 35, as shown in Fig. 3.

To secure the top glass on the case the same is laid on the packing, 35, in the horizontal channel plates which extend from one corner plate to another. The clip plates, 21, 75 are then drawn inwardly by turning the screws, 25, on the inside of the case and when so drawn the hooks, 22, thereof take over the vertical edges of the top plate and hold the same down, as clearly shown in Figs. 1 and 3. 80 It will thus be seen that the top, side and end plates are all held down to the base, 1, by the bolts, 26, without boring or drilling holes in any of said plates and also without exposing any of the adjusting screws on the outside of 85 the case.

Having thus described my invention what I claim and desire to secure by Letters Pat-

ent is,—

1. In a show case the combination with the 90 base, of the top side and end plates; a corner plate connecting the side and end plates and interposed between the top plate and said side and end plates; a channel bar extending vertically from the corner plate and inter-95 posed between the side and end plates, and means for holding the top plate down with respect to the corner plate.

2. In a show case the combination with the base, of the top, side and end plate; a 100 cover plate of the juncture of the side and end plates and interposed between said plates and the top plate; a channel bar extending vertically from the corner plate and interposed between the side and end plates and a 105 rod extending from the corner plate to the base for holding said plate down on the side

and end plates.

3. In a show case the combination with the base, of the top, side and end plates; a 110 corner plate having channels extending at an angle with respect to each other to receive the edges of the side and end plates; means for holding the corner plate down on the said plates, and clip plates interposed between 115 the top plate and said corner plate and means for sliding said clip plates between said corner plate and said corner plate and said corner plate.

4. In a show case the combination with a base, of the top, side and end plates; a cor- 120 ner plate interposed between the upper edges of the side and end plates and the bottom side of the top plate; clip plates extending horizontally between the side and top plates and having a hook at one end, and means for 125 adjusting the clip plates by moving the same

horizontally.

5. In a show case the combination with a base, of the top, side and end plates; a corner plate having a depending wall at its outer 130

edge and depending flanges at its inner edge whereby to engage the outer and inner surfaces of the side and end plates; clip plates movable horizontally with respect to the 5 corner plate and having an upturned outer end and a downturned inner end, and adend and a downturned fine inner justing screws passing through the inner ends of the clip plates and bearing against the G. FERDINAND VOGT.

depending flanges of the corner plates for moving the clip-plates horizontally.

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

SOLOMON HIMMEL.

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Witnesses: