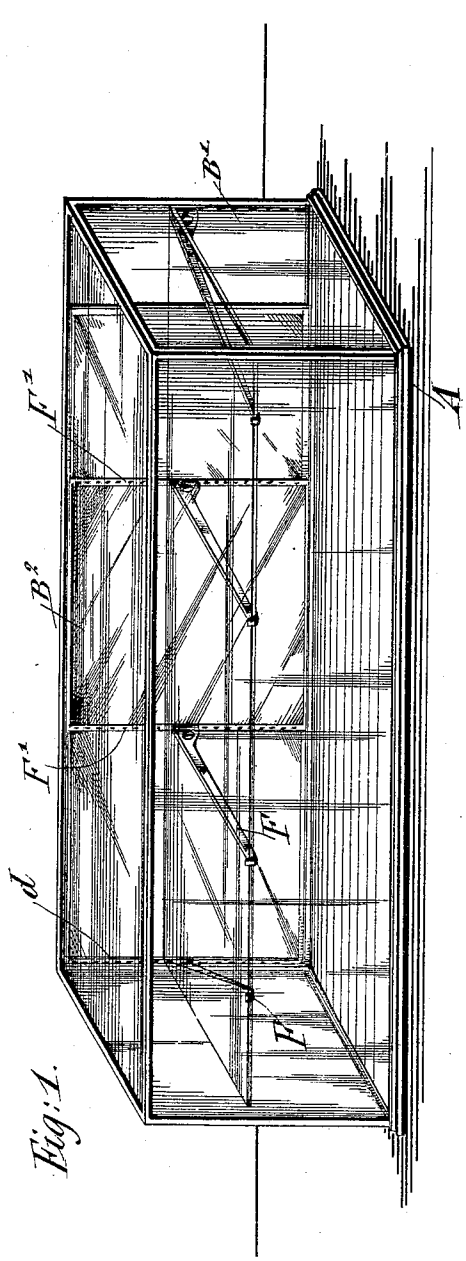
No. 606,911. Patented July 5, 1898.

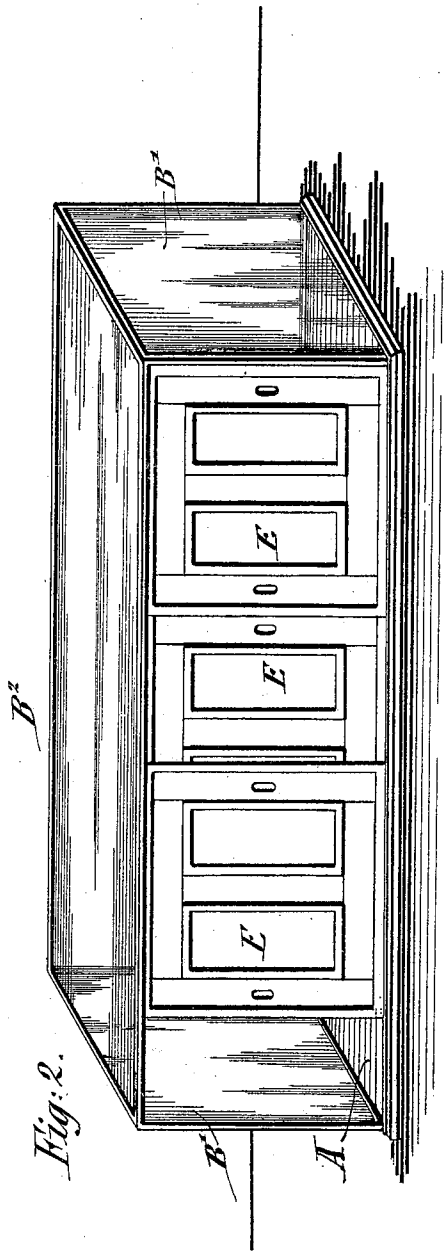
C. F. BIELE.

SHOW CASE.

(No Model.) (Application filed Sept. 13, 1897.)

3 Sheets—Sheet 1.





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No. 606,911. Patented July 5, 1898.

C. F. BIELE.

SHOW CASE.

(Application filed Sept. 13, 1897.)

(No Model.) 3 Sheets—Sheet 2.

Fig. 4.

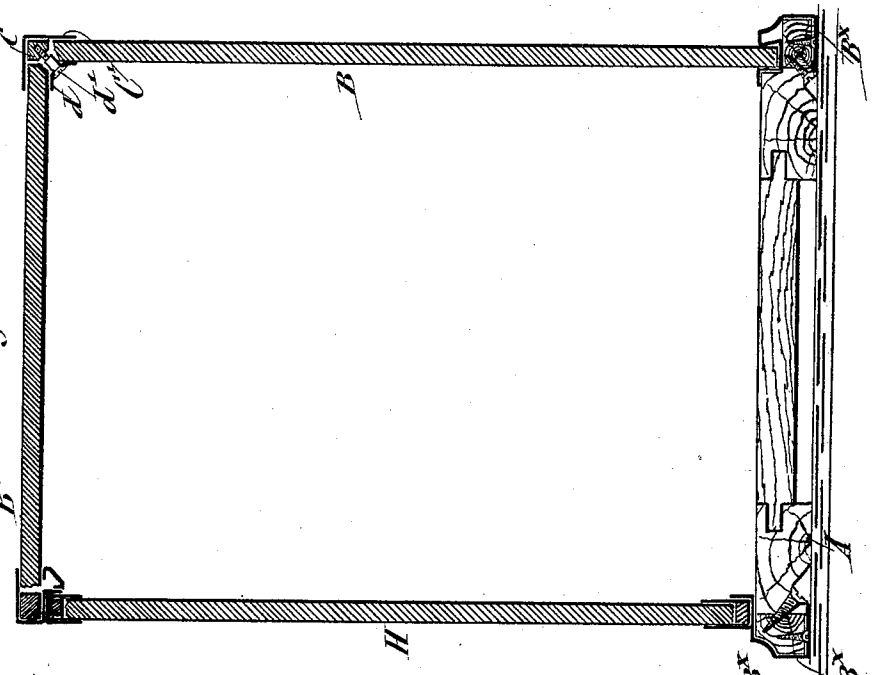
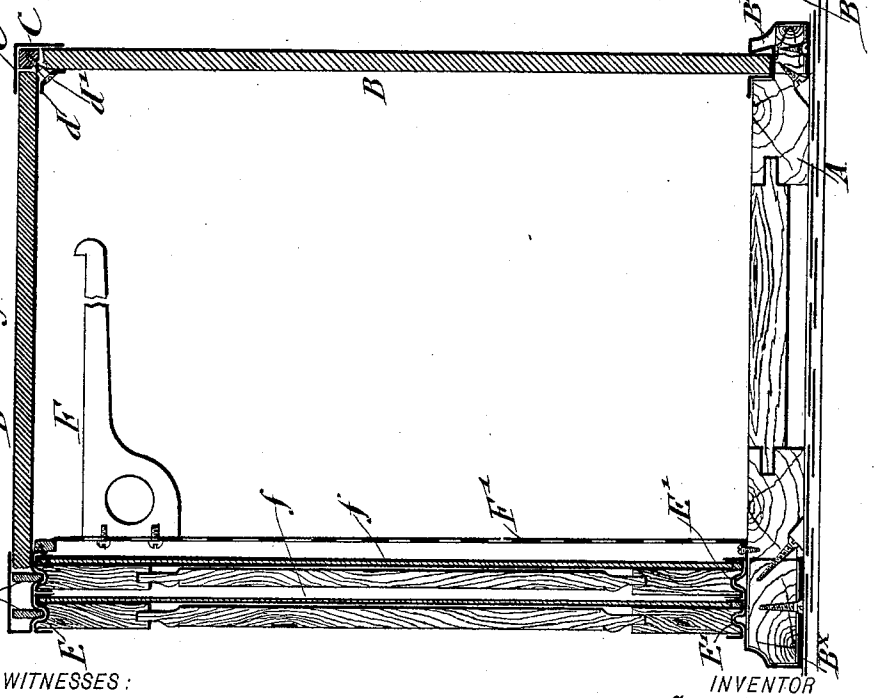


Fig. 3.



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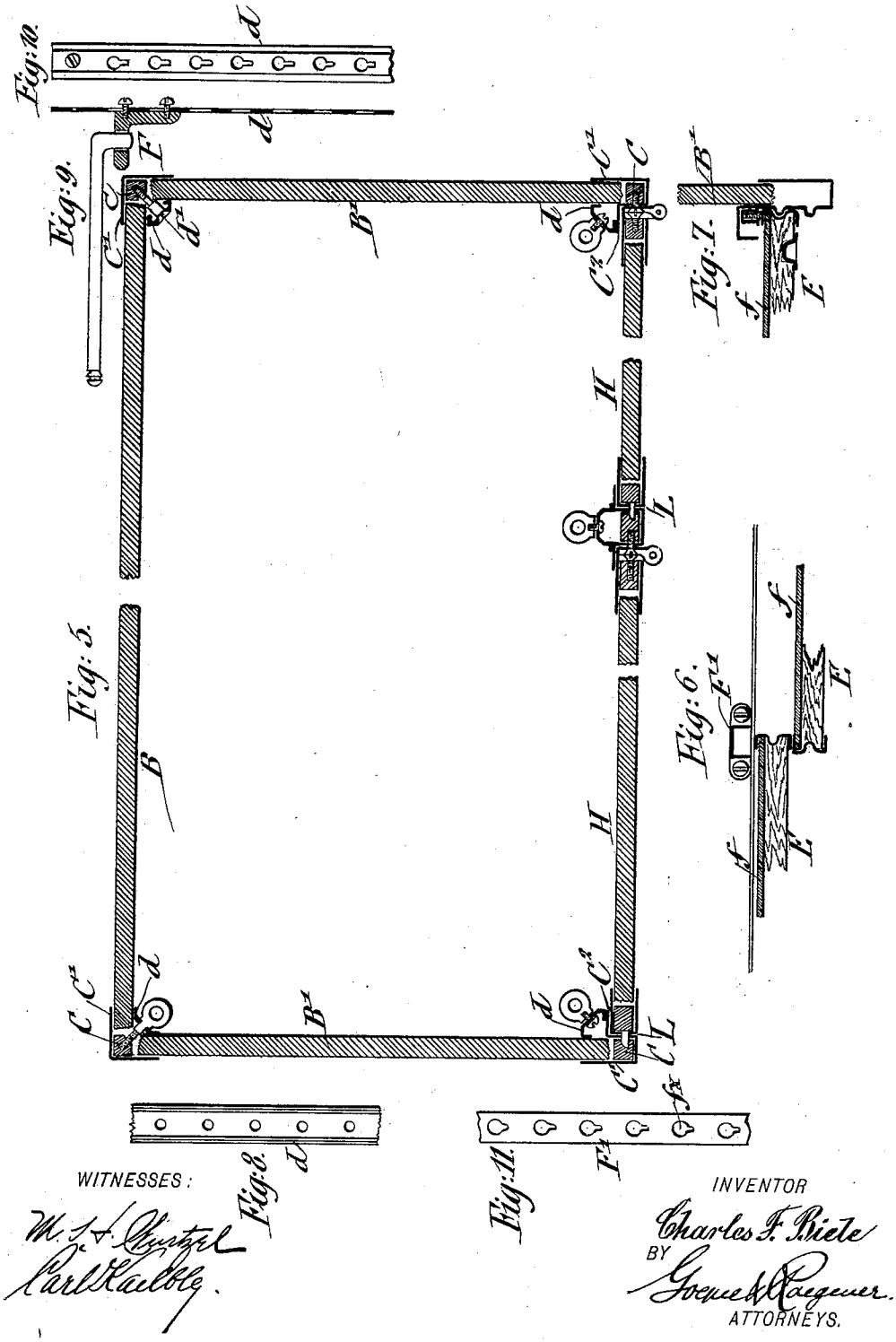
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No. 606,911. Patented July 5, 1898.

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(No Model.) (Application filed Sept. 13, 1897.) 3 Sheets—Sheet 3.



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UNITED STATES PATENT OFFICE.

CHARLES F. BIELE, OF NEW YORK, N. Y.

SHOW-CASE.

SPECIFICATION forming part of Letters Patent No. 606,911, dated July 5, 1898.

Application filed September 13, 1897. Serial No. 651,467. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. BIELE, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Show-Cases, of which the following is a specification.

This invention relates to an improved show-case of that class in which the front or side, end, and top glass plates are held together by metallic corner-pieces, so that a very strong and durable show-case is obtained, in connection with interior shelf-brackets supported by said corner-pieces; and the invention consists of a show-case comprising a bottom having sheet-metal moldings for receiving the front and end plates and the ways required for the sliding or hinged doors, interior glazing-strips, corner-pieces, and fastenings for connecting the glazing-strips with the corner-pieces, said glazing-strips being constructed and arranged for receiving shelf-supporting brackets.

The invention consists, further, of certain details of construction of the show-case, doors, and other parts, which will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective front view of my improved show-case. Fig. 2 is a perspective rear view of the same, showing it arranged with sliding doors. Fig. 3 is a vertical transverse section of the show-case. Fig. 4 is also a vertical transverse section showing the show-case constructed with hinged glass doors instead of sliding doors. Fig. 5 is a horizontal section of the show-case, showing the connection of the glass walls with the hinged rear door. Figs. 6 and 7 are detail horizontal sections of portions of the sliding doors and case. Fig. 8 is an elevation of a portion of one of the glazing-strips used for connecting the parts, and Figs. 9 and 10 are elevations of another form of glazing-strip adapted for holding supporting-brackets thereon. Fig. 11 is a detail elevation of the bracket-supporting stay shown in Fig. 3.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the bottom of my improved show-case, which is preferably made of wood, provided with edge moldings of brass or other suitable sheet metal. The metal molding $B^{\times}$ at the bottom A is grooved at the front and sides, so as to receive the lower ends of the glass plates that form the side and end walls B B′, respectively, of the show-case. The glass plates B B′ are connected at the corners by means of upright cast-metal corner-pieces C, which are provided with exterior angular face-strips C′ of brass or other sheet metal, said corner-pieces C being applied to the glass plates by means of interior glazing-strips *d*, which are provided with holes for the connecting-screws *d*′, by which the glazing-strips *d* are connected with the corner-pieces C, so that glass plates are rigidly clamped in position, as shown in Fig. 5. The glazing-strips are provided with side flanges that bind on the adjacent inner surfaces of the glass plates, so that in connection with the face-strips C′ of the corner-pieces the same are firmly clamped. The top plate B^2 is connected to the upper edges of the side and end glass plates in the same manner by means of cast-metal corner-pieces C, having exterior angular face-strips C′, interior glazing-strips *d*, and connecting-screws *d*′, as shown at the upper corners of Figs. 3 and 4.

The doors of my improved show-case may be made to slide, in which case they are made in sections E, which are guided in sheet-metal ways E′, arranged in the bottom and top moldings, which latter are reinforced by wrought-iron strips E^2, as shown in Fig. 3. The sliding-door sections are faced on their inside with mirror-plates *f*, so as to hide the doors from the front of the show-case. When glass shelves are to be arranged in the same, they are preferably supported by headed screws in upright stays F′, that are attached at their upper and lower ends, respectively, to the bottom A and to the guideways of the top, as shown in Fig. 3, the upright supporting-stays F′ being provided with slots $f^{\times}$, having enlarged upper ends for permitting the insertion of the headed screws of the brackets F in the well-known manner. The brackets F support the glass shelves placed on the same. According to the size of the show-case a number of upright slotted supporting-stays F′ are arranged at suitable distances

from each other, said strips stiffening at the same time the construction of the show-case and preventing the sagging of the rear molding of the top intermediately between the supporting corner-pieces.

In place of the sliding doors made of wood and provided with interior mirror plates hinged glass doors H may sometimes be required. As the glass doors cannot be made in one piece for the full length of the case, several smaller doors are arranged, which are each provided with cast-metal edge strips that are hinged in a suitable manner respectively to the rear corner and intermediate pieces of the show-case, as shown in Fig. 5. The hinged doors are locked by means of suitable locks L to the rear corner and intermediate pieces. (See Fig. 5.) The face-strips of the rear corner-pieces are bent around the same and provided with inwardly-bent ledges C^2, against which the hinged doors rest when in closed position. In this case the bracket-strips F′ may be dispensed with, as the intermediate pieces stiffen the case sufficiently, and in place thereof may be used the vertical pieces provided with slots having enlarged upper ends, as shown in Fig. 9, for attaching the supporting-brackets for the shelves in the manner before described. The glazing-strips are also used as supports for the shelf-supporting brackets, which can be applied thereto at any suitable height, as required by the position of the shelves.

In some cases the connecting-screws between the glazing-strips and corner-pieces may be made with eyes at their inner ends, so as to directly receive shelf-supporting brackets. In this case ordinary glazing-strips without slots may be employed.

My improved show-case has the advantage that being made almost entirely of glass and metal, with the exception of the bottom, it is very strong and durable and can be shipped to any climate without being influenced by changes of temperature. By the arrangement of the interior bracket-supporting arms glass shelves can be used in connection with the case at any desired height above the bottom, as required by the special purpose for which the case is to be used.

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

1. In a show-case, the combination, with glass plates forming the walls and top of the same, of a corner-fastening for holding said plates in position, consisting of a corner-piece arranged between the contiguous edges of the plates, sheet-metal face-strips attached to said corner-piece and extending over the adjacent edges of said plates, interior sheet-metal glazing-strips provided with flanges adapted to bear against said plates, and fastening-bolts extending through the main portion of said glazing-strips and connecting said strips with the corner-pieces so as to clamp said plates in position, substantially as set forth.

2. In a show-case, the combination of a bottom, glass plates forming the side walls and top of the case, corner-pieces arranged between the contiguous edges of the plates, angular face-strips attached to said corner-pieces and extending over the adjacent edges of said glass plates, interior glazing-strips provided with openings, and fastening screw-bolts connecting the glazing-strips with the corner-pieces and provided with eyes at their inner ends for receiving shelf-supporting brackets, substantially as set forth.

3. In a show-case, the combination, with the bottom of the case and glass plates forming the sides of the case, of sheet-metal edge moldings attached to said bottom and extending over the adjacent edges of the same, and forming at their upper portion a groove for receiving the lower edges of said plates, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

CHARLES F. BIELE.

Witnesses:
PAUL GOEPEL,
GEO. L. WHEELOCK.