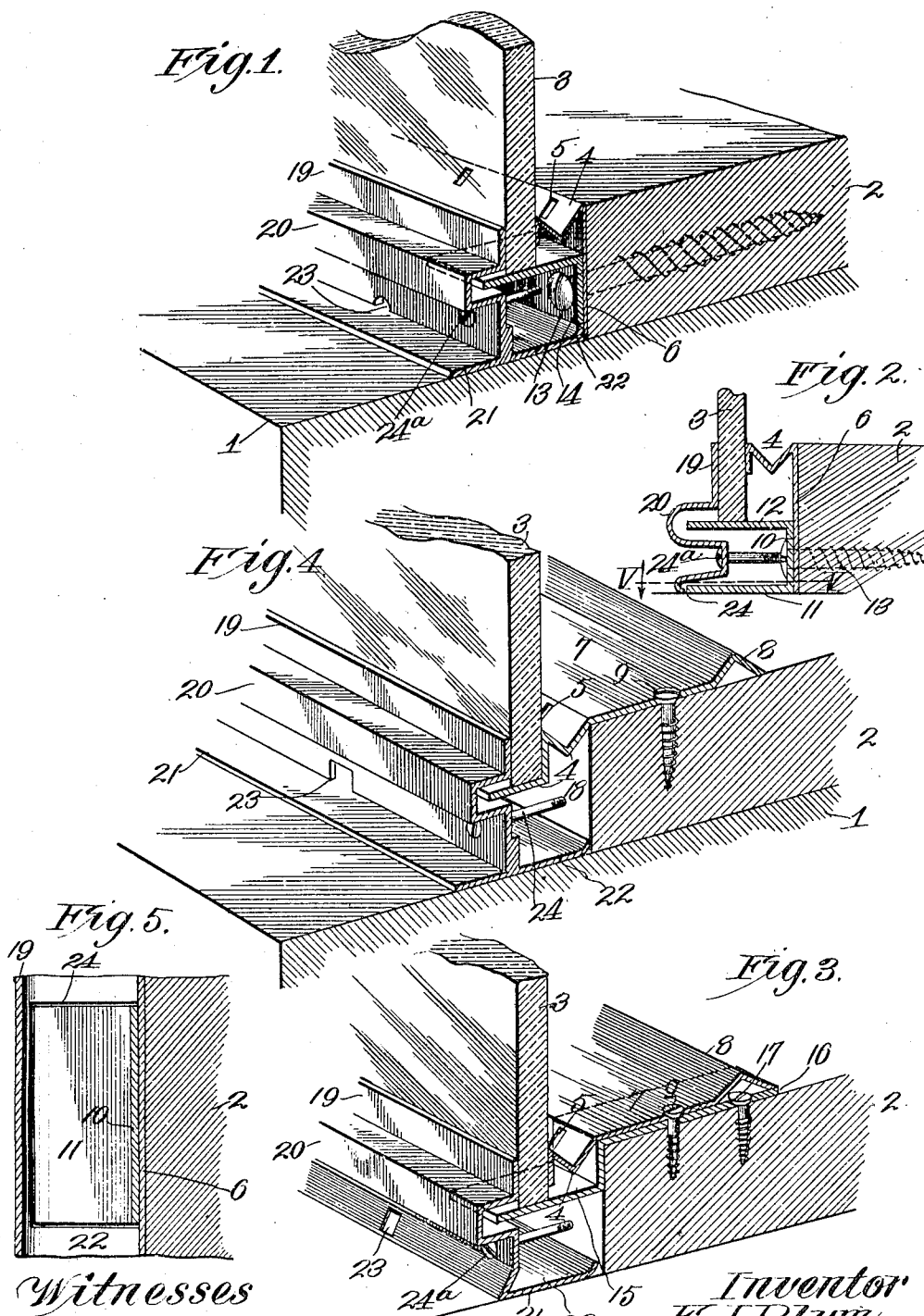


No. 852,450.

PATENTED MAY 7, 1907.

F. J. PLYM.
STORE FRONT CONSTRUCTION.
APPLICATION FILED AUG. 22, 1906.



UNITED STATES PATENT OFFICE.

FRANCIS J. PLYM, OF KANSAS CITY, MISSOURI.

STORE-FRONT CONSTRUCTION.

No. 852,450.

Specification of Letters Patent.

Patented May 7, 1907.

Application filed August 22, 1906. Serial No. 331,662.

To all whom it may concern:

Be it known that I, FRANCIS J. PLYM, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Store-Front Construction, of which the following is a specification.

This invention relates to store front constructions, and my object is to produce a structure of this character for efficiently and reliably supporting plate or other heavy glass in window sashes or show case frames.

A further object is to produce a structure whereby the installation of heavy glass plates may be effected quickly, easily and economically.

A still further object is to provide a structure of this character whereby accumulated dust and dirt may be readily removed without removing or disturbing the glass plate.

To these ends the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which—

Figure 1, is a sectional perspective view of one type of construction. Fig. 2, is a vertical section of a second type of construction. Fig. 3, is a sectional perspective view of a third type of construction. Fig. 4, is a sectional perspective view of a fourth type of construction. Fig. 5, is a horizontal section on the line V—V of Fig. 4.

In the said drawings where like reference numerals indicate corresponding parts, 1 indicates the sill or base of the window sash or show case frame. 2 the floor of such window or case, and 3 the glass plate.

4 indicates a gutter at the inner side of the plate and in Figs. 1, 2, 3, and 5 of resilient material and pressing outwardly against said plate and provided with a series of drain or ventilating holes 5, and in its preferred construction (see Figs. 1 and 2) with a depending arm 6 fitting against the outer edge of the floor 2, as shown.

In Figs. 3 and 4 the gutter is provided with a substantially horizontal arm 7 resting, in Fig. 4, directly upon the floor, and in both figures is provided with an arched inner edge 8 to prevent water which may fall upon arm

7 from flowing inwardly thereon onto the floor 2. Said arched edges will furthermore tend to prevent dust from working inwardly from said plate onto the floor of the window or case. 9 indicates screws for securing arm 7 in position.

To support the glass plate in position, I preferably employ two or more short channel irons (see Figs. 2 and 5) with their base portions 10 fitting against arm 6 of the gutter, their lower arms 11 resting on the sill and underlying the glass plate and their upper arms 12 also underlying and forming a direct support or shelf for the glass plate to rest upon, screws or equivalent fastening devices 13 extending through the channel irons and through the arm 6 of the gutter and into the floor 2, to secure said irons reliably to the latter.

In the construction shown in Fig. 1, I provide in lieu of the channel irons described, two or more angle brackets 14, having their vertical arms corresponding in arrangement to the base portions of the channel irons and secured like the latter by screws 13 to the floor 2, said screws as in Fig. 2, likewise passing through the arm 6 of the gutter.

In Fig. 3, I provide as a support for the glass two or more angle brackets 15, inverted with respect to angle brackets 14 and provided with horizontal arms 16 resting upon the floor 2, below the arm 7 of the gutter and secured to said floor by the screws 9 which secure arm 7 in place and by additional screws 17 disposed below the arched edge 8.

In Fig. 4, as a support for the glass I provide the gutter, which in this case is of non-resilient material, with an arm or shelf 18 underlying the glass. In all of the figures the glass is retained reliably upon the supports or shelves by a channeled strip 19, the upper portion of the strip bearing against the outer face of the glass at or near its lower margin, and the channeled portion being disposed to fit around the outer edge of the shelf. The strip in Figs. 1 and 4 is provided with a base portion resting flatly upon the sill and consisting of a portion 21 projecting outwardly and a portion or gutter 22 projecting inwardly.

In Figs. 2, 3, and 5, the outer portion of the base is dispensed with and in all of the figures, the lower portion of the strip is pro-

vided with openings 23 for ventilation and to permit water which may fall into gutter 22 from gutter 5, to escape.

In Figs. 2 and 5, I provide a channeled strip which in all essential particulars is the same as the strip shown in Figs. 1, 3 and 4. The strip in Fig. 2 differs from the latter in that it is channeled at its outer side as well as at its inner side and terminates at its lower end in a gutter 22, recessed or notched as at 24 to receive the lower arms 11 of the channel irons. In each type of construction the wall is clamped in position by screws 24^a which extend into the floor 2, and also through the interposed parts of the gutter and support as shown in Figs. 1 and 2.

In practice what may be termed the permanent parts, viz. the gutter 4 and support or shelf are first secured in position and then the glass plate is disposed on the support or shelf and against the gutter. The retaining strip is then secured in position by slipping it up against the plate and inserting and driving home the screws 24^a.

With the parts thus arranged it is obvious that a circulation of air from the outside is established through the openings hereinbefore described and that water which falls from or may be produced by condensation on the inner face of the glass, will flow into the gutter and thence down into gutter 22 and escape externally of the window.

Should dust or other foreign matter accumulate in the gutter 22 it can be easily and quickly removed without disturbing the glass by withdrawing the screws 24^a and removing the retaining strip, the latter being resecured in position after such cleaning operation.

While the drawings show and the description refers to the base portion of a store front construction, it is to be understood that such construction or setting may extend continuously around the glass except that the shelf or support will not be needed at the top and side edges of the same.

From the above description it will be apparent that I have produced a structure embodying the features of advantage enumerated as desirable and I wish it to be understood that I do not wish to be limited to the exact details of construction shown and described as obvious modifications will suggest themselves to one skilled in the art.

Having thus described the invention what I claim as new and desire to secure by Letters Patent, is:—

1. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, means for pressing said plate yieldingly outward, and a retaining strip adjustable toward or from said support or shelf and disposed at

the outer side of and engaging said glass plate.

2. In a construction of the character described, the combination of shelf or support, a glass plate resting edgewise thereon, means for pressing said plate yieldingly outward, and a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate, said retaining strip having a channeled portion to loosely receive the outer edge of the support or shelf.

3. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, means for pressing said plate yieldingly outward, a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate, and a gutter underlying said support or shelf.

4. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, means for pressing said plate yieldingly outward, and a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate and provided with holes in its lower edge.

5. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, means for pressing said plate yieldingly outward, a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate and provided with holes in its lower edge, and a gutter underlying the shelf or support to conduct water to the holes in the lower edge of the retaining strip.

6. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, a resilient gutter exerting an outward pressure on the glass plate, and a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate.

7. In a construction of the character described, the combination of a shelf or support, a glass plate resting edgewise thereon, a resilient gutter exerting an outward pressure on the glass plate and provided with holes, and a retaining strip adjustable toward or from said support or shelf and disposed at the outer side of and engaging said glass plate and provided with holes in its lower edge.

8. In a construction of the character described, the combination of a shelf or support, a plate resting edgewise thereon, a channeled retaining strip having its channel arranged to receive the outer edge of the

shelf or support, and means to adjust said strip toward or from said support and secure it against the outer side of said plate.

5 9. In a construction of the character described the combination of a shelf or support, a plate resting edgewise thereon, a gutter at the inner side of the plate, and a retaining strip adjustable toward or from such

support or shelf and disposed at the outer side of and engaging said plate.

In testimony whereof I affix my signature, 10
in the presence of two witnesses.

FRANCIS J. PLYM.

Witnesses:

H. C. RODGERS,
G. Y. THORPE.