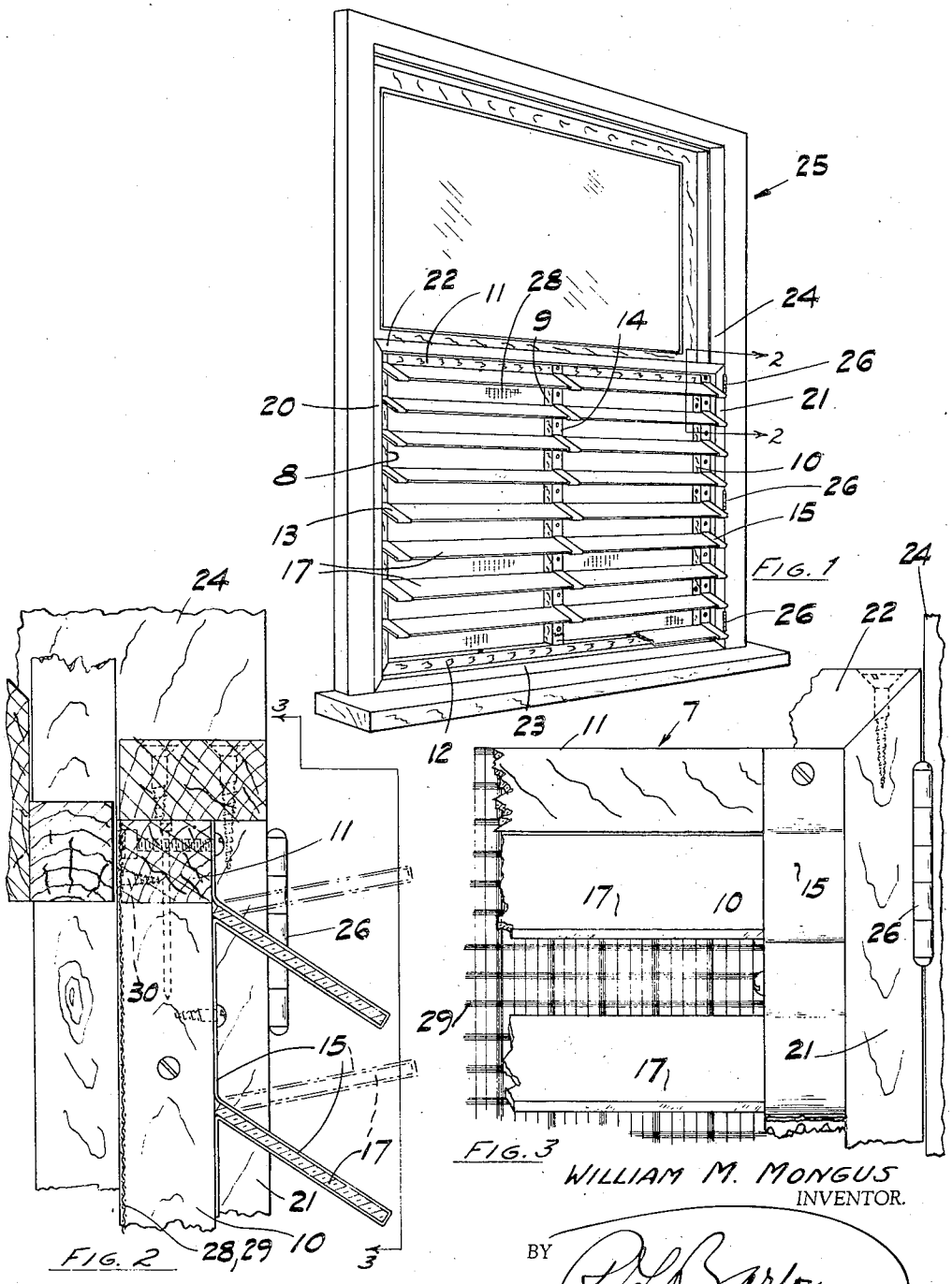
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WINDOW STRUCTURE

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WINDOW STRUCTURE

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6 Claims. (Cl. 20—62)

My invention relates broadly to a window structure.

More specifically my invention relates to a combination screen and glass shutter construction wherein the glass slats when installed give to the completed window, the appearance of a Venetian blind.

An important object of the invention is to provide an improved screen window wherein the slat holding means is of a pliable character permitting the slats to be pitched at various angles to suit weather conditions, ventilation, or control the entrance of the sun's rays through the glass or openings between the glass slats in the manner desired.

A further object of the invention is to provide an improved glass window construction simulating the effect of a Venetian blind wherein the pieces of glass, with which the window is constructed, are easy and economical to provide and replace, and which are at the same time adapted to color treat patients.

Another object of the invention is to improve upon screen window constructions which will eliminate dirty screens; exclude dust particles; admit pure air and sunshine, and may be constructed in various shapes, sizes and color in keeping with the taste and finances of the user.

Yet a further object of the invention is to provide an improved screen, glass pane window wherein the window-panes forming the glass pane comprise a plurality of glass slats individually mounted upon pliable supports.

A still further object of the invention is to provide an improved combination cloth screen and glass-shutter window construction wherein the glass-shutter portion will provide a semi-burglar proof construction which will give to the occupant of a room upon retiring a greater sense of security and will insure safety against asphyxiation by accidental escape of gas.

Another object is to provide a superior means for detachably mounting the individual slats of the shutter so that any broken slat may be more readily removed and may, as readily, be replaced by an intact one.

Other objects, advantages and improved features of construction will hereinafter appear.

Referring to the accompanying drawing which at present is deemed to be a preferred embodiment of the invention,

Fig. 1 is a perspective view of the complete structure.

Fig. 2 is an enlarged vertical section taken on line 2—2 of Fig. 1.

Fig. 3 is a view looking at the structure in Fig. 2 from right to left as indicated by the arrows on the line 3—3 in the latter view.

Referring in detail to the drawing, the sash frame 7 comprises the plurality of vertical frame pieces 8, 9 and 10 joined above by a horizontal top piece 11 and having a similar lower cross piece 12.

Secured to the front faces of the three vertical uprights 8, 9 and 10 are pliable metallic tapes 13, 14 and 15, each of said tapes being furnished with a series of forwardly directed loops which pass around and support the series of glass slats 17. Said loops are arranged in horizontal as well as vertical rows, and said slats may be fed horizontally into said loops in an endwise manner, and they are retained within said loops by the vertical side pieces 20 and 21 of a frame which is completed by means of the top piece 22 and bottom piece 23. This frame is supported upon a stile 24 of the window frame 25 by means of hinges 26, to swing in a horizontal plane.

As disclosed in Fig. 2 by means of full lines and dotted lines, the pliable metal (preferably copper) tapes which support said slats can be flexed so as to individually adjust the individual slats at various inclinations.

In the event that said slats are made of colored glass the aforesaid adjustment will serve to regulate the extent to which the colors used will modify the rays of the sun entering the room through the window.

The slats have an additional function, that of making this particular device an "all weather screen window" in that the slats may be more or less inclined towards a closed position to exclude the weather and also protect the screen from floating dust and dirt.

On the inner side of the sash structure which has been described is mounted a screen 28 which may be of metal as shown in Fig. 1, or of cloth as shown at 29 in Fig. 3. When made of cloth such screen may be detached by removing attaching screws 30 and then laundered. Using cloth also permits a choice of colors which may be varied to harmonize with the interior decorations within the room.

In constructing the sash 7 the parts 8, 9, 10, 11 and 12 comprising the inner frame, are first assembled. The pliable tapes are then secured to the vertical uprights 8, 9 and 10 by means of bolts and screws as shown. Parts 21, 22 and 23 of the outer frame are then secured to the inner frame, after which the slats 17 are added. The device is completed by the addition of the part

20 and the screen 28, 29. The sash is then in readiness for installation. When it is desired to make alterations the part 20 may be removed and the necessary repairs made.

Simplicity of construction and speed of installation is greatly augmented by the provision of the pliable, slat-supporting tapes, each of said tapes constituting a unitary means for adjustably supporting a plurality of the slats of the shutter.

It should be understood that the present disclosure is for the purpose of illustration only and that this invention includes all modifications and equivalents which fall within the scope of the subject matter claimed.

What is claimed is:

1. A shutter including slats which are individually mounted upon and supported solely by a pliable metallic means that provides for adjusting the inclinations of said slats through the horizontal to both upward and downward inclinations.

2. A shutter including a sash, a series of slats arranged to simulate a Venetian blind, and pliable metal tapes each of which is secured to and aids in supporting a plurality of said slats upon said sash and whereby said slats may be angularly adjusted by bending portions of said tape adjacent to them.

3. The subject matter of claim 2 and, each of said tapes having a plurality of loops directed angularly from its body portion, the individual loops extending around individual slats.

4. A shutter including a sash, a series of slats mounted upon said sash in a parallel spaced relation to each other, the mounting means for said slats consisting of a plurality of pliable metallic tapes secured to said sash and extending vertically in a parallel spaced relation to each other, each of said tapes having a plurality of outwardly directed loops, individual loops passing transversely around individual slats, and means whereby said tapes are secured to the sash frame between their aforesaid loops.

5. Means to support a slat of the kind specified which includes tapes made of a pliable metal and having angularly deflectable keepers upon which said slats are mounted, said keepers constituting the sole supporting means for said slats.

6. In combination, a slat of the kind specified, and a pliable metallic tape having between its end portions a loop, said slat being supported by said loop, and said loop being bendable at its juncture with said tape to adjust the inclination of said slat.

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