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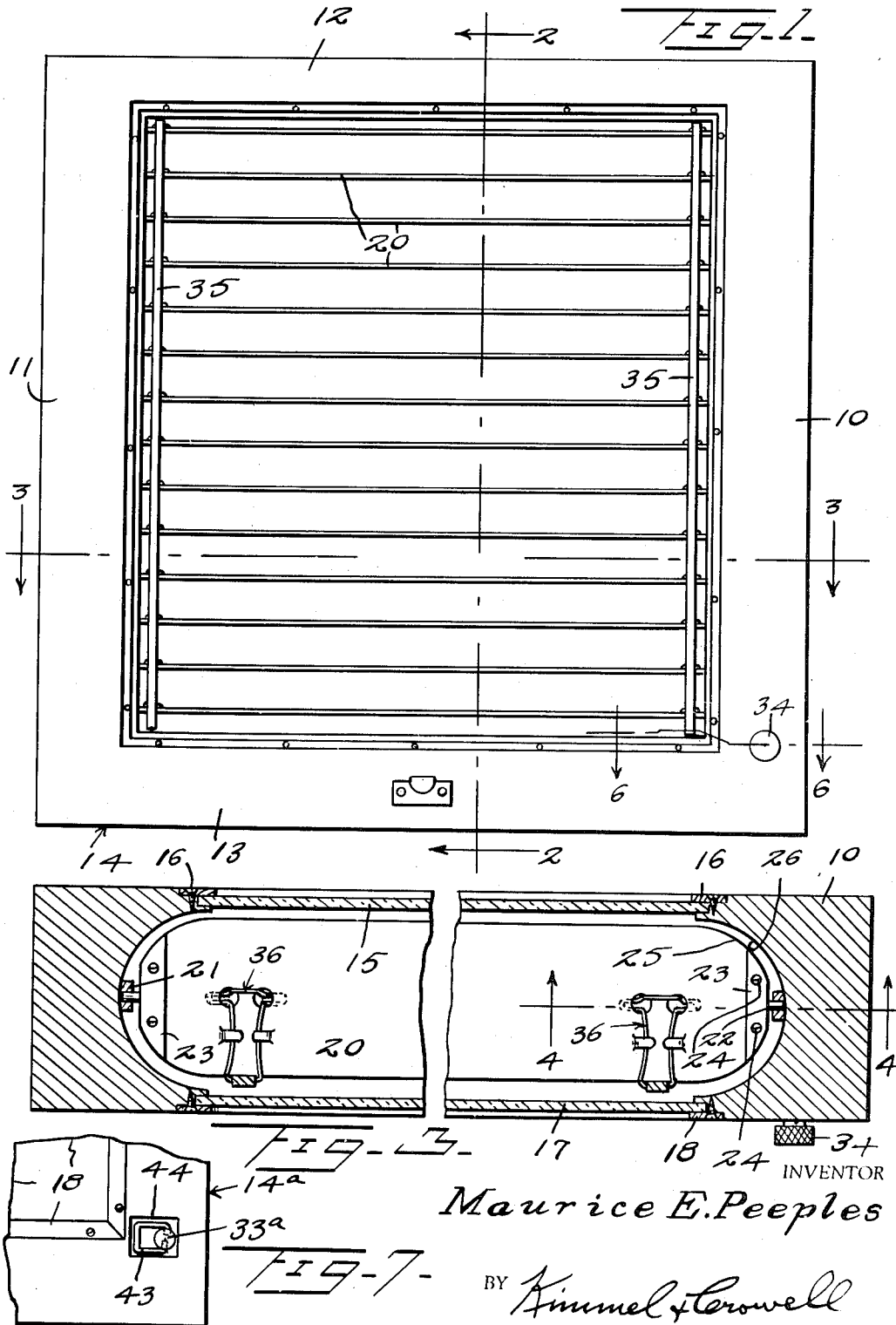
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COMBINED WINDOW SASH AND BLIND STRUCTURE

Filed Jan. 22, 1953

2 Sheets-Sheet 1



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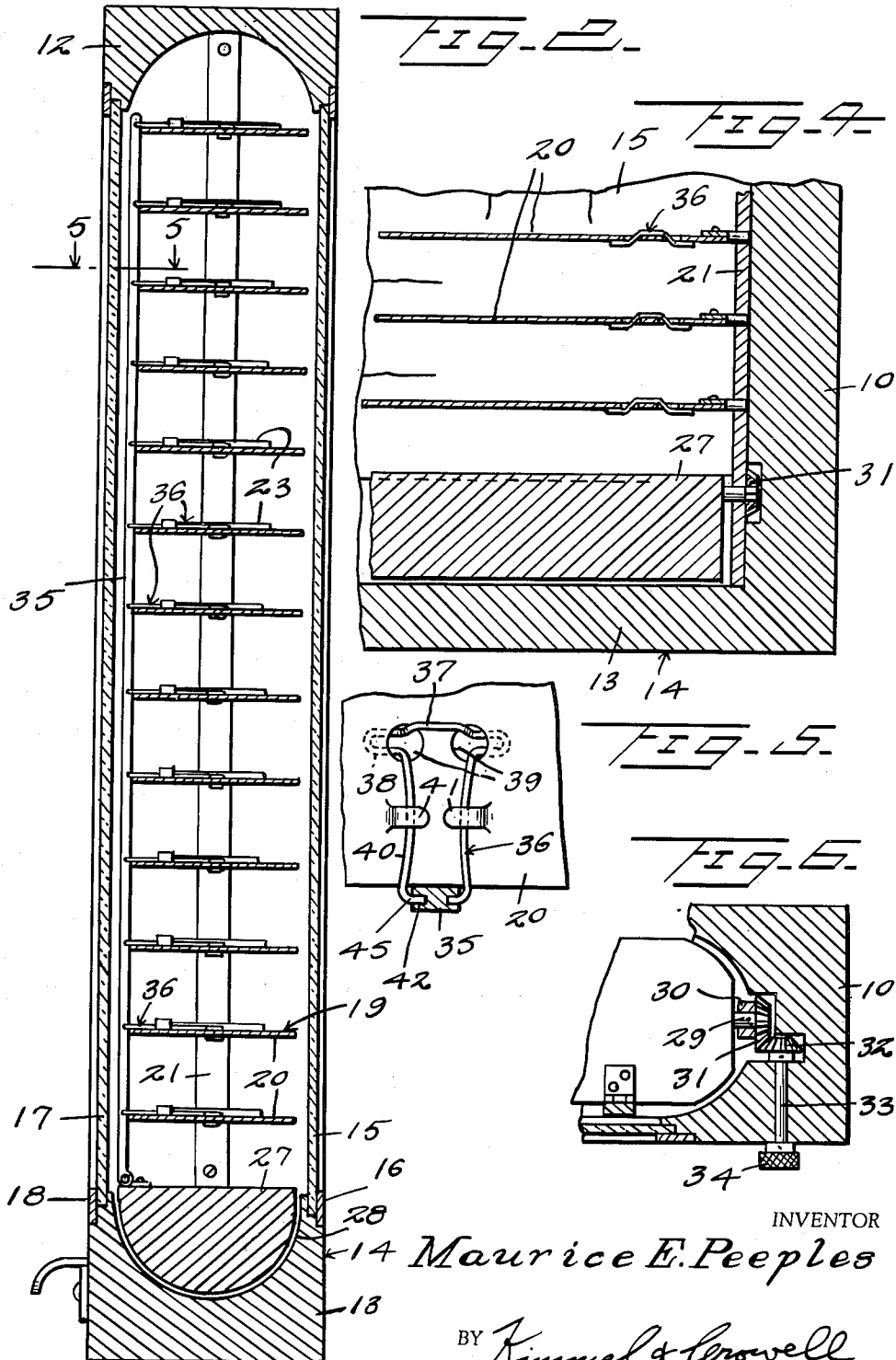
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COMBINED WINDOW SASH AND BLIND STRUCTURE

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3 Claims. (Cl. 20—62)

This invention relates to a combined window sash and pivotal blind.

An object of this invention is to provide a window sash having a pair of spaced glass panels with a pivotal blind structure between the panels.

Another object of this invention is to provide in a pivotal blind assembly a vertical connecting bar for the slats with an improved wire clip for pivotally securing the slats to the bar.

A further object of this invention is to provide an improved pivotal blind structure which is simple and compact so that the structure can be readily mounted and sealed within a double panel sash.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings—

Figure 1 is a detailed front elevation of a window sash constructed according to an embodiment of this invention, the sash having one transparent panel removed,

Figure 2 is a sectional view taken on the line 2—2 of Figure 1,

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 1,

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3,

Figure 5 is a fragmentary sectional view taken on the line 5—5 of Figure 2,

Figure 6 is a fragmentary sectional view taken on the line 6—6 of Figure 1,

Figure 7 is a fragmentary front elevation of the lower portion of the upper sash.

Referring to the drawings, the numerals 10 and 11 designate generally a pair of stiles connected together by means of upper and lower rails 12 and 13 respectively. The sash, generally indicated by the numeral 14 has secured to the outer side thereof a transparent panel 15 which is secured to the sash 14 by means of a clamping strip 16. An inner transparent panel 17 is also secured to the inner side of the sash 14, being held in place by means of a clamping strip 18.

The sash 14 has mounted between the panels 15 and 17 thereof a pivotal blind structure generally indicated at 19. The blind structure 19 is formed of a plurality of horizontally disposed slats 20 which are pivotally secured at the opposite ends thereof to vertically positioned bars 21. In practice the ends of the slats 20 have studs 22 extending therefrom, and the studs 22 are fixed to a transverse plate 23 which is secured by fastening means 24 to the end of the slat.

The ends of the slats are rounded as indicated at 25 and the stiles 10 and 11 are formed with concave inner side 26. A lower operating bar 27 is pivotally mounted in a concave channel or recess 28 formed in the lower rail 13 and the controlling bar or member 27 has extending from one end thereof a stud 29 mounted in a bearing 30.

A bevel gear 31 is fixed to stud 29 and a right angu-

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larly disposed bevel gear 32, carried by a shaft 33, meshes with gear 31. Shaft 33 projects through the inner side or face of stile 10 and has an operating knob or member 34 fixed thereto.

A pair of vertically disposed connecting bars 35 are disposed at one edge of the slats 20 and the connecting bars 35 are pivotally connected with the slats 20 by means of clips generally indicated at 36. The clips 36 are formed of wire which is bent into substantially T-shape, with the head bar 37 formed with confronting U-shaped members 38. The U-shaped members 38 are adapted to be extended through a pair of openings 39 formed in the slat 20, with the head bar 37 positioned on the opposite face of the slat 20.

The clip 36 also includes a pair of resilient stem forming bars 40 which are secured to the adjacent face of the slat 20 by means of a pair of lugs 41 which are struck from the slat 20. The outer ends of the bars 40 project beyond the adjacent edge of slat 20 and are formed with substantially right angularly disposed studs 45 which pivotally engage in pairs of openings 42 formed in the connecting bar 35.

The upper sash, shown in fragmentary form in Figure 7, and indicated by the numeral 14a, will be identical with the lower sash 14 with the exception that the operating shaft 33a will have pivotally secured thereto a U-shaped operator 43 which is normally disposed in the recess 44 formed in the inner face of sash 14a.

The pivotal blind structure 19 will be sealed between the transparent panels 15 and 17 so that no dust or the like may enter the interior of the sash structure. In the event it is desired to operate the pivotal blind structure 19, knob 34 is rotated so as to tilt the slats 20 to the desired degree. With a combined window sash and pivotal blind structure as hereinbefore described, each sash will have incorporated therein a pivotal blind assembly or structure which is independently operated. The assembly hereinbefore described will prevent the pivotal blind sash from being affected by wind, rain, or the like, and each sash may be raised or lowered independently of each other, with the blind in the desired position as determined by operation of knob 34 or operator 43.

I do not mean to confine myself to the exact details of construction herein disclosed, but claim all variations falling within the purview of the appended claims.

What I claim is:

1. In a pivotal slat construction, a plurality of spaced parallel slats, a pair of connecting bars disposed at one edge of said slats, a pair of T-shaped wire clips for each slat, the head of the T being offset relative to the plane of the stem thereof, each slat having a pair of openings through which the offset ends of each head of a clip are projected, a pair of outwardly struck tongues formed adjacent said openings and engaging the stem portion of a clip, and a pair of right angular studs carried by the stem of each clip pivotally engaging a connecting bar.

2. A device as claimed in claim 1 in which means are provided for simultaneously pivoting said slats.

3. A device as claimed in claim 1 in which means including a bevel gear drive are provided for pivoting said slats.

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