

Dec. 14, 1937.

F. KALB, SR

2,102,156

WINDOW SHUTTER

Filed June 2, 1937

Fig. 1.

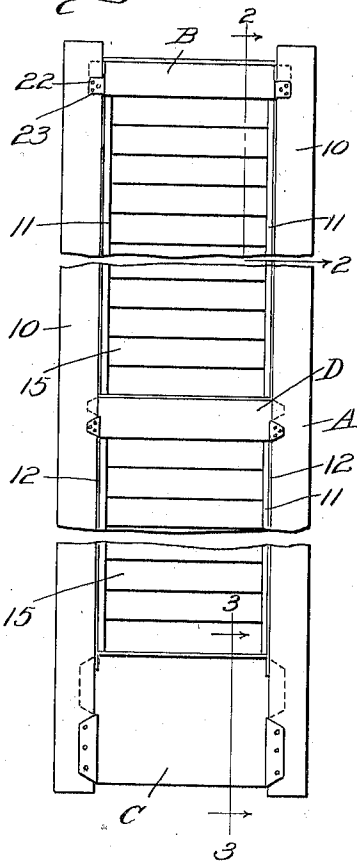


Fig. 2.

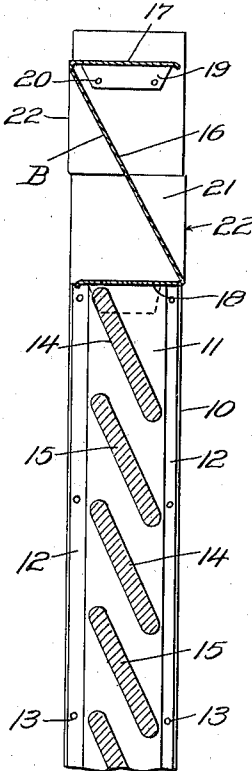


Fig. 3.

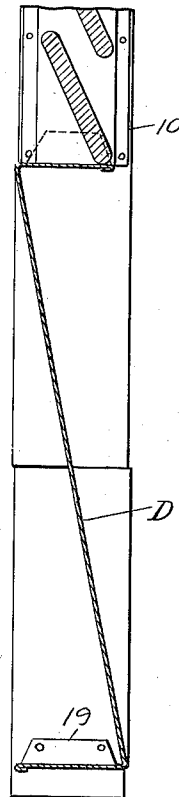


Fig. 4.

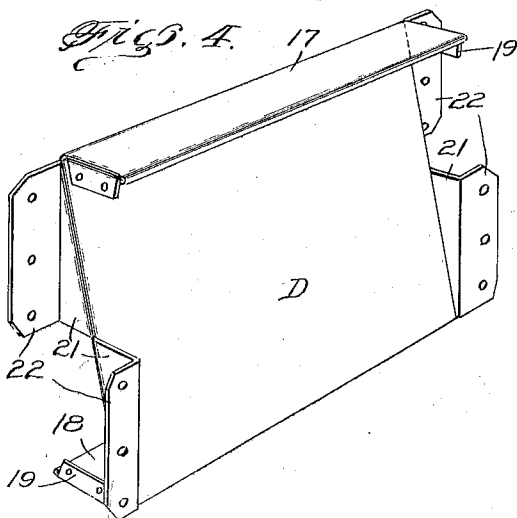
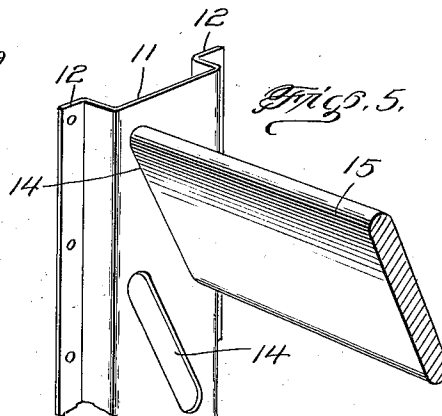


Fig. 5.



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UNITED STATES PATENT OFFICE

2,102,156

WINDOW SHUTTER

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Application June 2, 1937, Serial No. 146,056

1 Claim. (Cl. 20—63)

The invention relates to a window shutter and more especially to a knock-down shutter for a window.

5 The primary object of the invention is the provision of a shutter of this character, wherein the slats or louvers are preferably made from wood while the end and intermediate cross connect-
10 ing pieces are made from metal, the slats or louvers being releasably held in slotted channeled metal strips detachably fastened to the side mem-
15 bers which latter are of wood and in this fashion when the shutter requires repairs the same can be made with dispatch, particularly where the wood parts become worn or rotted so that the shutter need not be discarded in its entirety.

Another object of the invention is the provi-
20 sion of a shutter of this character, wherein the same is composed partly of wood and partly of metal thereby increasing the life of such shutter and by the assembly of the parts thereof repairs
25 can be made or new parts substituted without the requirement of skilled labor for so doing.

A further object of the invention is the pro-
30 vision of a shutter of this character, which is simple in its construction, readily and easily as-
sembled, susceptible of being knocked down, strong, durable, and inexpensive to manufacture.

With these and other objects in view, the in-
35 vention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in
40 the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claim hereunto appended.

In the accompanying drawing:

35 Figure 1 is an elevation of a shutter constructed in accordance with the invention.

Figure 2 is a sectional view on the line 2—2
40 of Figure 1 looking in the direction of the arrows.

Figure 3 is a sectional view on the line 3—3
45 of Figure 1 looking in the direction of the arrows.

Figure 4 is a perspective view of the bottom end
50 cross connecting piece of the shutter.

Figure 5 is a fragmentary perspective view
55 showing in detail one of the louvers or slats fitted with the slotted channeled strip therefor.

Similar reference characters indicate corre-
sponding parts throughout the several views in the drawing.

Referring to the drawing in detail, the shutter
designated generally at A for a window and con-
stituting the present invention comprises spaced
longitudinally disposed side rails 10, these being
55 preferably made from wood and are of a length corresponding to the length of the window to which is to be fitted the shutter A. At the inner edges of these rails 10 are detachably fitted chan-
neled strips 11 preferably of substantially U form in cross section, each having the outturned lat-

terally extending side edge flanges 12 accommo-
dating at intervals fasteners 13 which secure the
said strips 11 to the rails 10 at the inner longer
edges thereof. These strips are located between
outer, upper and lower and intermediate cross
5 connecting members B, C and D, respectively,
which are separably joined to the rails 10 and are preferably made from sheet metal.

The strips 11 are formed with spaced diagonally
disposed elongated slots 14 accommodating
10 louvers or slats 15 preferably made from wood. The louvers or slats 15 snugly fit the slots 14,
which are located centrally in the strips 11.

The outer upper member B is formed from a
metal sheet blank cut and bent to provide an in-
15 termediate diagonally disposed web 16 with re-
versely disposed horizontally arranged upper and lower ledges 17 and 18, respectively, which at op-
posite ends are formed with turned ears 19 at
20 right angles thereto and these receive fasteners
20 for engagement in the rails 10. The web 16 at
opposite ends thereof has cut and reversely bent
therefrom the triangular portions 21 provided
with attaching ears 22 accommodating fasteners
25 23 for engagement in said rails 10, the ears being
disposed in overlapping relation to opposite front
and rear faces of said rails. The pieces C and
D in the construction thereof are similar to the
30 piece B and are separably fastened with the rails 10.

As has been stated, it is preferable that the
35 rails 10 be made from wood and also the louvers or slats 15 similarly made from wood while the strips 11 and pieces B, C and D are preferably
made from sheet metal, these being separably
40 fastened to the rails 10 so that the shutter A may be readily knocked down when the occasion re-
quires for replacing any worn or rotted parts
thereof, that is, should the rails 10 become unfit
for use or the louvers or slats 15 become unfit for
45 further use. The separation of the shutter for the knocking down of the same can be had by
unskilled labor.

What is claimed is:

A shutter of the kind described comprising
45 spaced longitudinally disposed parallel rails and outer and intermediate cross connecting mem-
bers between the said rails and each formed from a blank of sheet material bent to provide an
50 intermediate diagonally disposed web with reverse-
ly arranged horizontal upper and lower ledges
having inturned ears at opposite ends of the lat-
ter at right angles thereto for separable fasten-
ing to said rails, and reversely bent triangular
55 portions at opposite ends of the webs with at-
taching ears overlapping said rails at opposite
sides thereof and separably secured thereto.

FRANK KALB, Sr.