W. F. BOWMAN.

WINDOW OR DOOR FRAME SHIELD.

APPLICATION FILED AUG. 24, 1916.

1,226,743. Patented May 22, 1917.

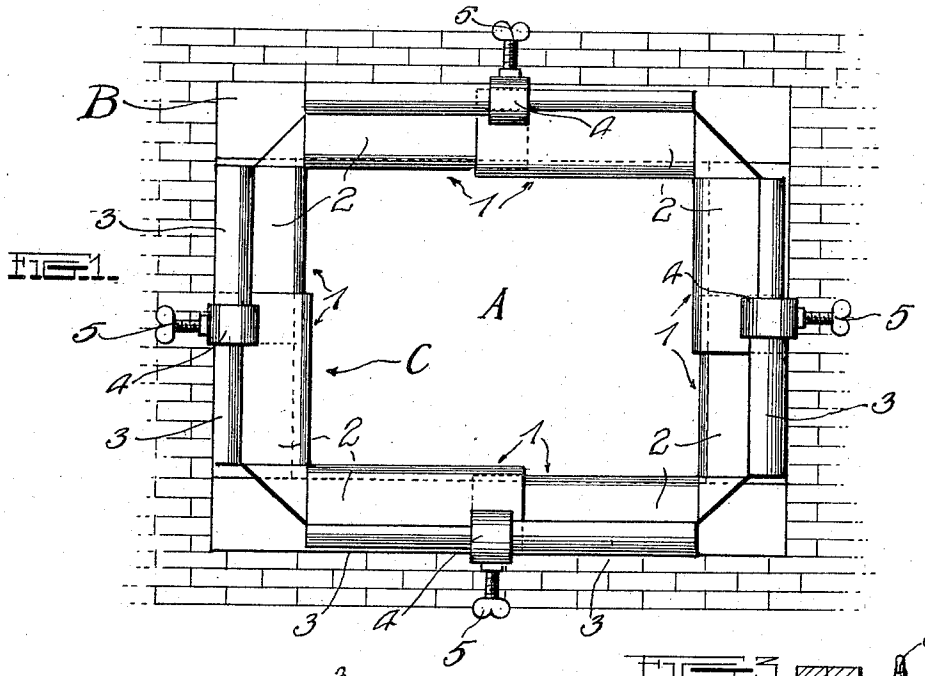


FIG. 1.

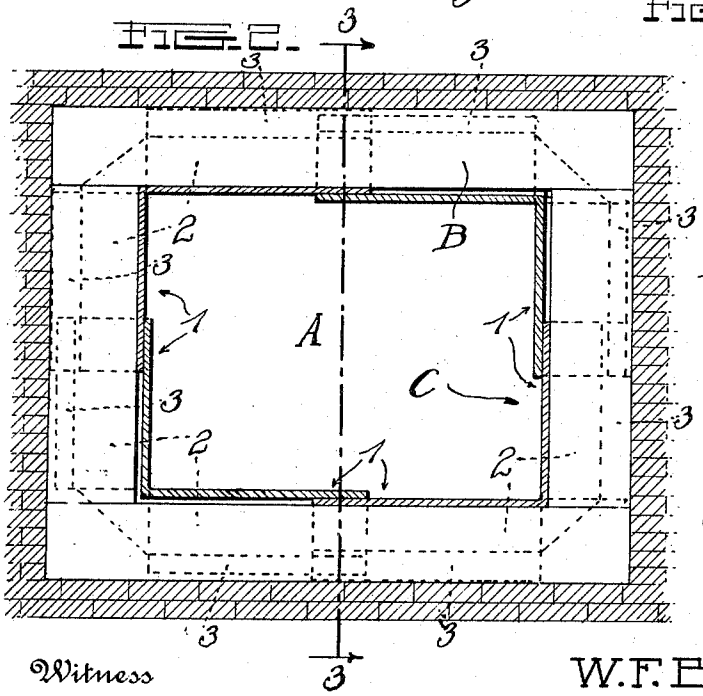


FIG. 2.

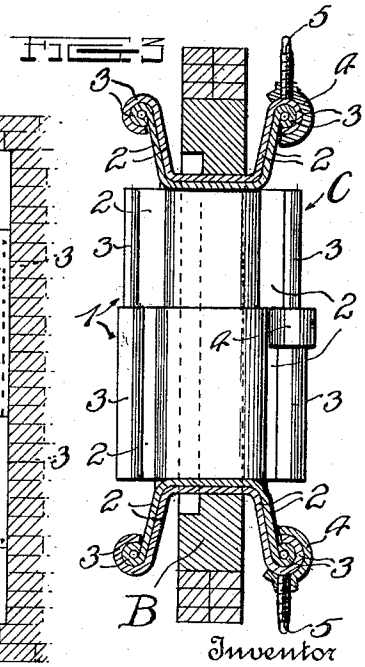


FIG. 3.

Witness

George M. Giovannetti

Inventor

W. F. BOWMAN

By A. Bruesonteo

Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM F. BOWMAN, OF DECATUR, ILLINOIS.

WINDOW OR DOOR FRAME SHIELD.

1,226,743. Specification of Letters Patent. Patented May 22, 1917.

Application filed August 24, 1916. Serial No. 116,693.

To all whom it may concern:

Be it known that I, WILLIAM F. BOWMAN, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Window or Door Frame Shields; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in shields for window or door frames through which heavy articles such as coal, wood, etc., are to be passed, but it is not restricted to such use as it may be employed in any connection for which it may be found appropriate.

The primary object of the invention is to provide a device of this character which is adjustable to window or door frames, or the like, of all sizes.

Another object of the invention is to generally improve upon devices of this character by the provision of a device which will be extremely simple, durable and inexpensive in construction, one which may be easily and readily attached to or detached from the window or door frame, and one which will be well adapted to the purpose for which it is designed.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings, forming part of the application, and in which similar reference characters designate like parts throughout the several views,

Figure 1 is a side elevation of a shield constructed in accordance with my invention and applied to a window frame;

Fig. 2 is a vertical longitudinal section of the parts shown in Fig. 1; and

Fig. 3, is a vertical transverse section on the plane of the line 3—3 of Fig. 2.

Referring more particularly to the drawings, the letter A designates a window opening in which is mounted in the usual manner a casing or frame B, and fitted to and within the casing or frame B is a shield C constructed in accordance with this invention. This shield or detachable frame is made adjustable both vertically and horizontally to fit window and door frames of any size within the limit of its adjustment, and is composed of four right angular strips 1 having flanges 2 extending laterally outwardly from the edges thereof and formed integrally with the same. Thus it may be seen that four channeled members are formed, although the channels therein may not necessarily be made in the exact manner described.

As clearly shown in the drawings, the arms of the adjacent members or strips 1 extend in opposite directions and are disposed one upon the other, and are provided with means for slidably connecting the same to each other, thereby forming the longitudinally adjustable sides of the window shield or detachable frame. The channels formed between the flanges 2 of the right angular members or strips 1 form, when the latter are assembled, a channel extending completely around the outer edge of the frame. The means preferably to be employed for slidably connecting the adjacent arms of the members together consists of rolling the free edges of the flanges outwardly upon themselves as at 3. The rolled portion 3 of one flange is made a trifle smaller than the rolled portion 3 of the adjacent flange so that the former will be snugly received and slidably mounted within the latter.

The means for locking the arms of the strips or members in their adjusted positions comprises U-shaped clamp members 4 which are disposed around the outer sides of the larger rolled portions 3 of the flanges. These clamp members 4 are provided with clamping bolts 5 extending through one side of the same, the inner ends of which engage the outer sides of the rolled portions of the flanges and press the same into contact with each other. Other means for accomplishing this same result may be employed if desired.

In using the device the arms of the members are moved longitudinally relative to each other so as to contract the frame in order that the same may be inserted within the window frame or door frame in connection with which it is to be used. The frame 1 is then expanded to the size of the window or door opening, the inner sides of the window or door frame being received by the flanges 2. The clamping bolts 5 are then tightened and the detachable frame is then locked in place. When heavy articles are then passed through the window or door

opening, the frame of the same will not be marred or injured in any manner, as the detachable frame or shield will protect it.

From the foregoing description, taken in connection with the accompanying drawings, the construction and use of the device will be readily understood without a more extended explanation.

As numerous changes in form, proportion, and in the minor details of construction may be resorted to without departing from the spirit of this invention, I do not wish to be limited to the construction herein shown and described other than as set forth in the appended claims.

I claim:—

1. A device of the class described comprising an open rectangular frame composed of four right angular strips having flanges extending laterally outwardly from the edges thereof and formed integral with the same, the arms of the adjacent strips extending in opposite directions and disposed one upon the other, the free edges of said flanges being rolled upon themselves, the rolled portion of one flange being received and slidably mounted within the rolled portion of the adjacent flange, and means for locking said arms in their adjusted positions.

2. A detachable window and door frame shield comprising an adjustable frame composed of four right angular members, the arms of the adjacent members extending in opposite directions and disposed in overlapping relation, and slidably connected together, said members having channels in their outer edges to provide a window and door frame receiving channel extending completely around the outer edge of the frame, and means for locking the arms of said members in their relatively adjusted positions.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM F. BOWMAN.

Witnesses:
E. V. HUSTON,
W. G. MCCULLOUGH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."