E. L. SHANE.

BUFFER.

APPLICATION FILED MAY 31, 1916.

1,197,769. Patented Sept. 12, 1916.

Fig. 1

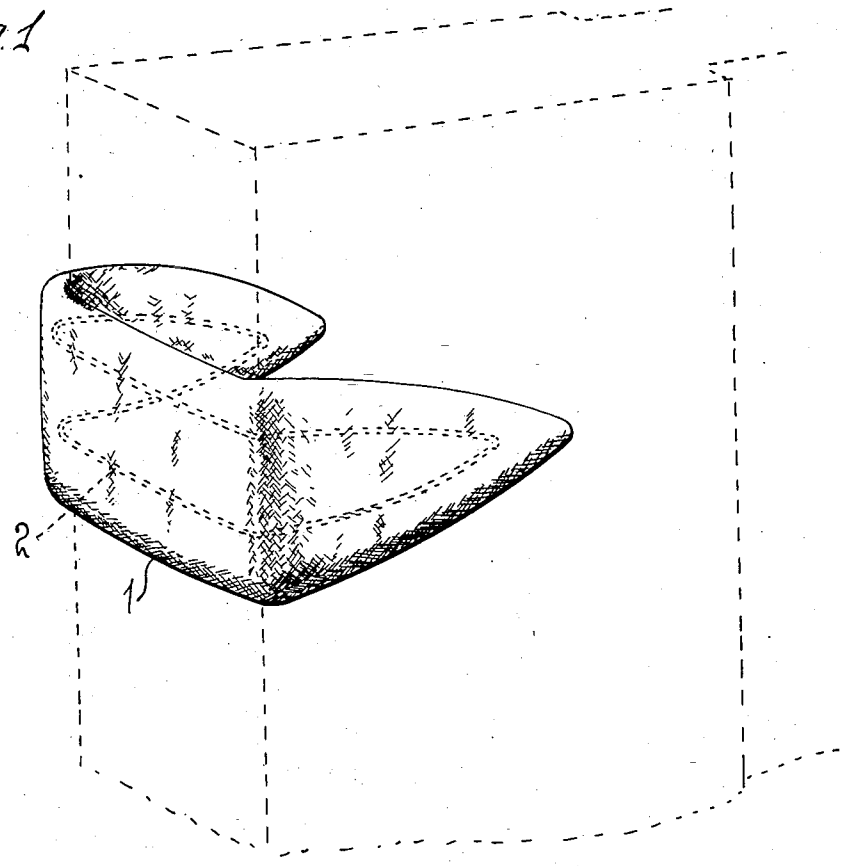
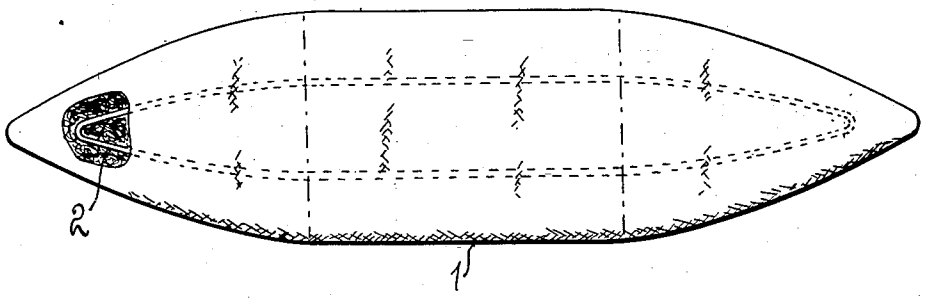


Fig. 2



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BUFFER.

1,197,769. Specification of Letters Patent. Patented Sept. 12, 1916.

Original application filed March 15, 1916, Serial No. 84,433. Divided and this application filed May 31, 1916. Serial No. 100,905.

To all whom it may concern:

Be it known that I, ETTIE L. SHANE, a citizen of the United States, residing at Carnegie, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Buffers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in buffers and has relation more particularly to a device of this general character especially designed and adapted for use in connection with doors and is a division of my prior application Serial No. 84,433 filed March 15, 1916; and it is an object of the invention to provide a novel and improved buffer which may be applied in operative position with convenience and facility and which affords effective means to prevent all disagreeable sounds incident to the slamming of doors.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved buffer whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a view in perspective of a buffer constructed in accordance with an embodiment of my invention, the coacting door being illustrated in fragment; and Fig. 2 is a view in plan of my improved buffer with a portion broken away, the same being shown flattened for clarity in disclosure of certain of the features as herein included.

As disclosed in the accompanying drawings, 1 denotes the body of my improved buffer which may be formed from any desired material and which is substantially U-shape in form, the intermediate portion of which being adapted for engagement with the edge of the door and the arms or side members being adapted for engagement with the opposite faces of the door adjacent the edge thereof.

Arranged within the body 1 is an elastic element in the nature of a wire spring 2 which is so shaped that the parts thereof extend throughout the major portion of the lengths of the arms or side members and through the intermediate portion thereof. By slightly spreading the arms the device may be readily applied to the edge of a door, while the arms or side members thereof under the influence of the spring 2, will frictionally engage the face of the door and serve to retain the buffer in any desired position vertically of the edge of the door.

While the spring 2 may be as desired, I prefer to form the same of a single strand of wire of requisite gage initially bent to form a substantially elliptical loop and after which the same is bent on transverse lines to substantially conform to the U-shaped configuration of the body 1.

From the foregoing description, it is thought to be obvious that a buffer constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled. I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as defined by the appended claims.

I claim:

1. As a new article of manufacture, a buffer adapted to extend across the vertical edge of a door and comprising a yieldable body portion, and elastic means embedded within the body and serving to afford a frictional engagement of the body with the door.

2. As a new article of manufacture, a yieldable buffer substantially U-shape in form and adapted to bridge the vertical edge of a door, and elastic means embedded within the body for causing the extremities of the body to frictionally engage the door.

3. As a new article of manufacture, a yieldable buffer adapted to straddle the vertical edge of a door, and an elastic member embedded within the body and serving to cause the free extremities of the body to frictionally engage the door, said elastic member comprising a single length of material formed into a loop.

4. As a new article of manufacture, a buffer adapted to straddle the vertical edge of

a door, and an elastic member embedded within the body and serving to cause the free extremities of the body to frictionally engage the door, said elastic member comprising a single length of material formed into a substantially elliptical loop.

5. As a new article of manufacture, a buffer substantially U-shaped in form adapted to bridge the vertical edge of a door, and an elastic member embedded within the body and serving to cause the free extremities of the body to frictionally engage the door, said elastic member comprising a single length of material formed into substantially an elliptical loop and bent on transverse lines to substantially conform to the U-shaped configuration of the body.

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

ETTIE L. SHANE.

Witnesses:
HENRY WEGENER,
ALMA WEGENER.