A. A. LONG.

BUFFER.

APPLICATION FILED MAR. 4, 1915.

1,190,310. Patented July 11, 1916.

Fig. 1

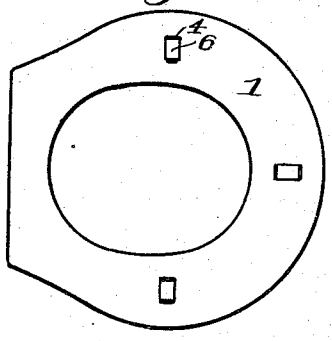


Fig. 2

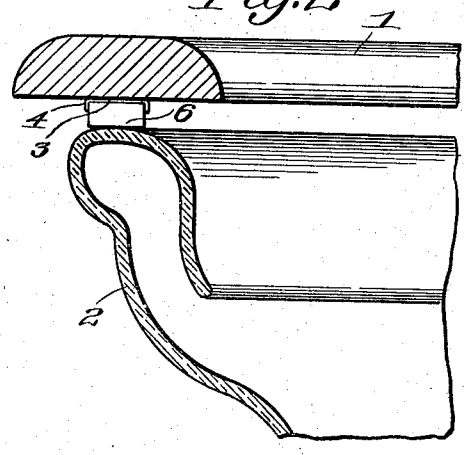


Fig. 3

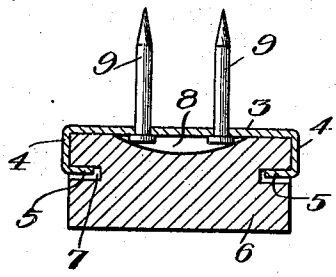


Fig. 4

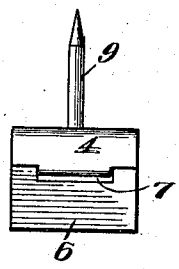


Fig. 5

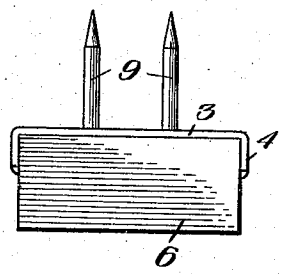


Fig. 6

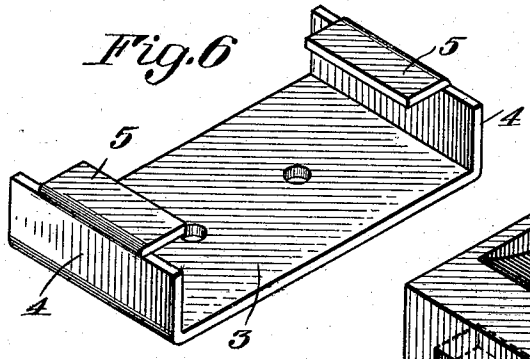
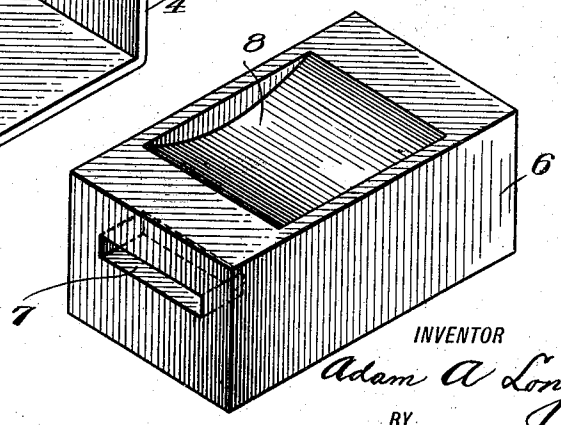


Fig. 7



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UNITED STATES PATENT OFFICE.

ADAM A. LONG, OF ROCHESTER, NEW YORK.

BUFFER.

1,190,310. Specification of Letters Patent. Patented July 11, 1916.

Application filed March 4, 1915. Serial No. 12,138.

To all whom it may concern:

Be it known that I, ADAM A. LONG, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Buffers, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

The present invention relates to buffers, the illustrated embodiment being designed for use on the under side of water closet seats for abutment with the upper edge of the bowl, and an object of this invention is to provide a construction in which the cushion element is so attached that there is little or no danger of any metallic parts coming in contact with the bowl.

Another object of the invention is to provide a construction in which the cushion element may be readily connected or disconnected without removing the attaching means.

To these and other ends, the invention consists in certain parts and combinations of parts all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings: Figure 1 is a view of the under side of the seat with the invention applied thereto; Fig. 2 is a detail sectional view of a seat and bowl with the invention in position between them and shown in section; Fig. 3 is a vertical section through the device; Fig. 4 is an end view of the device; Fig. 5 is a side view of the device; Fig. 6 is a perspective view of the attaching member; and Fig. 7 is a perspective view of the cushion member.

Referring more particularly to the drawings, 1 indicates the seat and 2 the bowl, any number of the devices being secured to the under side of the seat as shown in Fig. 1. Each device embodies an attaching member which preferably is in the form of an elongated rectangular plate 3 having laterally-turned end portions 4. These end portions carry cushion retaining means preferably in the form of lugs 5 extending inwardly from the end portions 4 and preferably of less width than said end portions. Held by the attaching member is a cushion member or body 6 which also is elongated and is preferably formed of rubber or other yielding or elastic material. Opposite ends of this cushion member are formed with recesses 7, the recesses being preferably less in length than the width of the cushion body and the width of the cushion body being substantially co-extensive with the width of the attaching plate 3. Within these recesses 7 are received the retaining lugs 5 on the attaching plate, this being effected by flexing or bending the body 6 transversely, after which it expands and is held to the attaching member against accidental displacement. That face of the cushion member 6 which is opposed to the attaching plate 3 may be provided with a pocket 8 which preferably is curved in the direction of the length of the body. This pocket performs a number of functions. It adds to the resiliency of the cushion member 6 by permitting the member to yield more readily at its center so that the member may conform to the curvature of the bowl. The pocket also facilitates the lateral flexing or bending of the cushion member to make more easy the attachment to or detachment from the attaching plate. It also serves as a pocket for receiving the heads of the fastening devices 9 which pass through openings 10 under the pocket to secure the attaching member to the seat 1.

A buffer constructed in accordance with this invention is inexpensive to manufacture. It gives sufficient cushioning action without any danger of the impact of metallic parts against the bowl. The cushion has a wide bearing surface on the bowl and readily conforms to the curvature of the bowl. The cushion has a longer life, and, when worn out, may be replaced by another without removing the attaching means.

What I claim as my invention, and desire to secure by Letters Patent is:

1. An elongated cushion body for buffers having a pocket in one wall thereof formed with a bottom curved transversely only, to render the body more flexible in a transverse direction than longitudinally.

2. A buffer having, in combination, a cushion body transversely flexible, and provided with recesses in opposite ends of less width than the body and spaced from opposite sides thereof, and an attaching member comprising a base plate against which the body rests, integral laterally extending end portions spaced apart on said plate between which the body lies, and inwardly turned lugs at opposite ends of less width than the body projecting into said recesses to lock said cushion body against lateral shifting on said base plate.

3. A buffer having, in combination, an elongated cushion body provided with a pocket having a bottom wall curved transversely only to render the body more flexible in the transverse direction than in the longitudinal direction and recesses in opposite ends, and an attaching member having a surface against which the pocketed face of the body rests and also having spaced means at opposite ends entering the recessed ends of said body to hold the latter to the attaching member.

4. A buffer having, in combination, an elongated cushion body provided with a pocket in one face having a bottom wall curved transversely only to render the cushion body more flexible transversely than longitudinally and with recesses in opposite ends, the recesses being shorter in length than the body is wide and spaced from opposite sides of the body, and an attaching member embodying a plate against which the pocketed face of the body rests, said plate having fastener openings under the pocket, integral laterally-turned portions spaced apart on the plate and receiving the body between them, and inwardly-turned lugs on the laterally-turned portions fitting in said recesses and locking the cushion body against lateral shifting on said base plate.

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Witnesses:
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ADA M. WHITMORE.

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