Aug. 7, 1928.

1,680,197

R. F. BATEMAN

BARN BROOM

Filed April 13, 1927

Fig. 1.

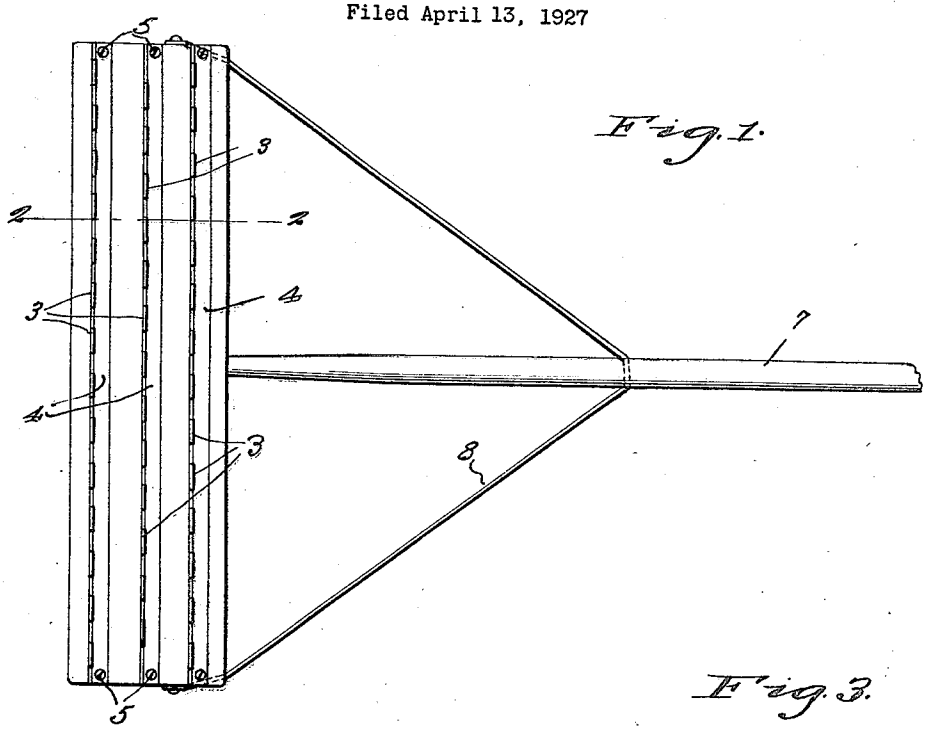


Fig. 3.

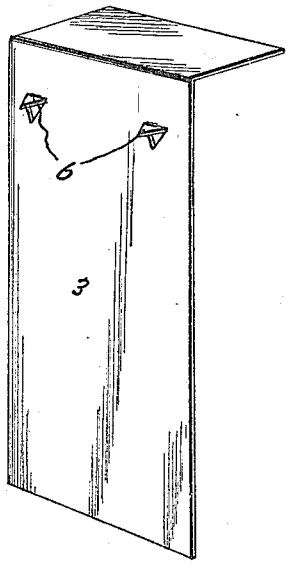
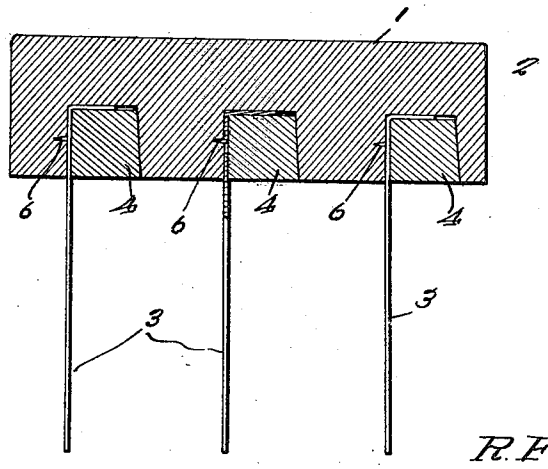


Fig. 2.



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WITNESS:

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UNITED STATES PATENT OFFICE.

RAYMOND F. BATEMAN, OF KING CITY, MISSOURI.

BARN BROOM.

Application filed April 13, 1927. Serial No. 183,513.

This invention relates to a broom for cleaning barns and the like, the general object of the invention being to provide a broom head with flexible steel strips carried thereby which act the same as the bristles of an ordinary broom.

Another object of the invention is to provide means for attaching the strips to the head in such a manner that damaged strips can be removed and new ones substituted with very little trouble.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a bottom plan view of the improved broom.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a perspective view of the spring metal pieces.

In these views, 1 indicates the broom head which, on its under face, is provided with a number of longitudinally extending grooves 2. Instead of using bristles for this broom, I use small strips 3 of spring metal which are of L shape with their short arms resting in the bottoms of the grooves and the strips are held in the grooves by the filling pieces 4 which act to wedge the strips in the grooves. These pieces are held in place by the screws 5. Each strip 3 has a pair of tongues 6 punched therefrom which are driven into the side walls of the grooves, as shown in Figure 2, so that the strips are held in place even after the pieces 4 are removed. Of course, a damaged strip 3 can be easily removed and a new one substituted after a piece 4 is taken out of the groove and then the said piece 4 is replaced, the tongues acting to temporarily hold the strips in position while the pieces 4 are being removed or replaced.

I prefer to use three rows of strips 3, as shown in the drawings, with the strips in the outer rows in alignment while the strips in the inner row are out of alignment with the strips of the outer rows, as clearly shown in Figure 1. This arrangement of strips will insure thorough cleaning of the surface over which the broom is passing.

A handle 7 is fastened to the head and a wire brace 8 connects the handle to the ends of the head.

It will thus be seen that I have provided a broom which is essentially designed for cleaning barns, stables and the like, the spring metal strips acting to push material along the surface over which the broom is passing.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

A broom of the class described comprising a head having grooves therein, a plurality of spring metal strips of L-shape having their shorter arms seated in the grooves, each strip having a tongue struck therefrom which is adapted to be pressed into the side of the groove and a filling piece inserted in each groove and bearing on the shorter arms for holding the spring metal strips therein.

In testimony whereof I affix my signature.

RAYMOND F. BATEMAN.