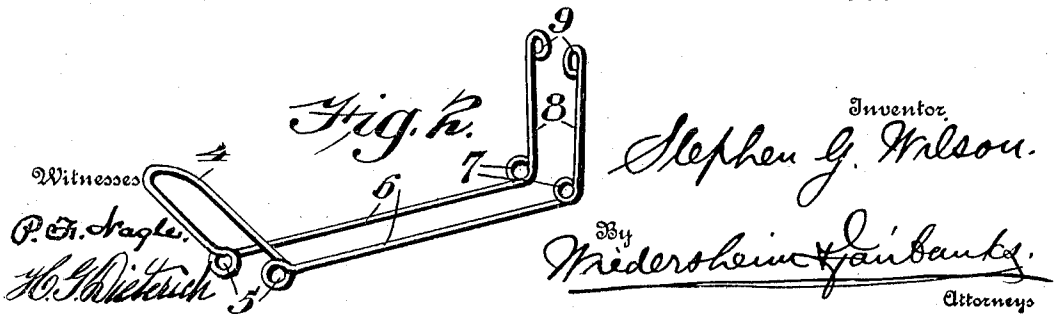
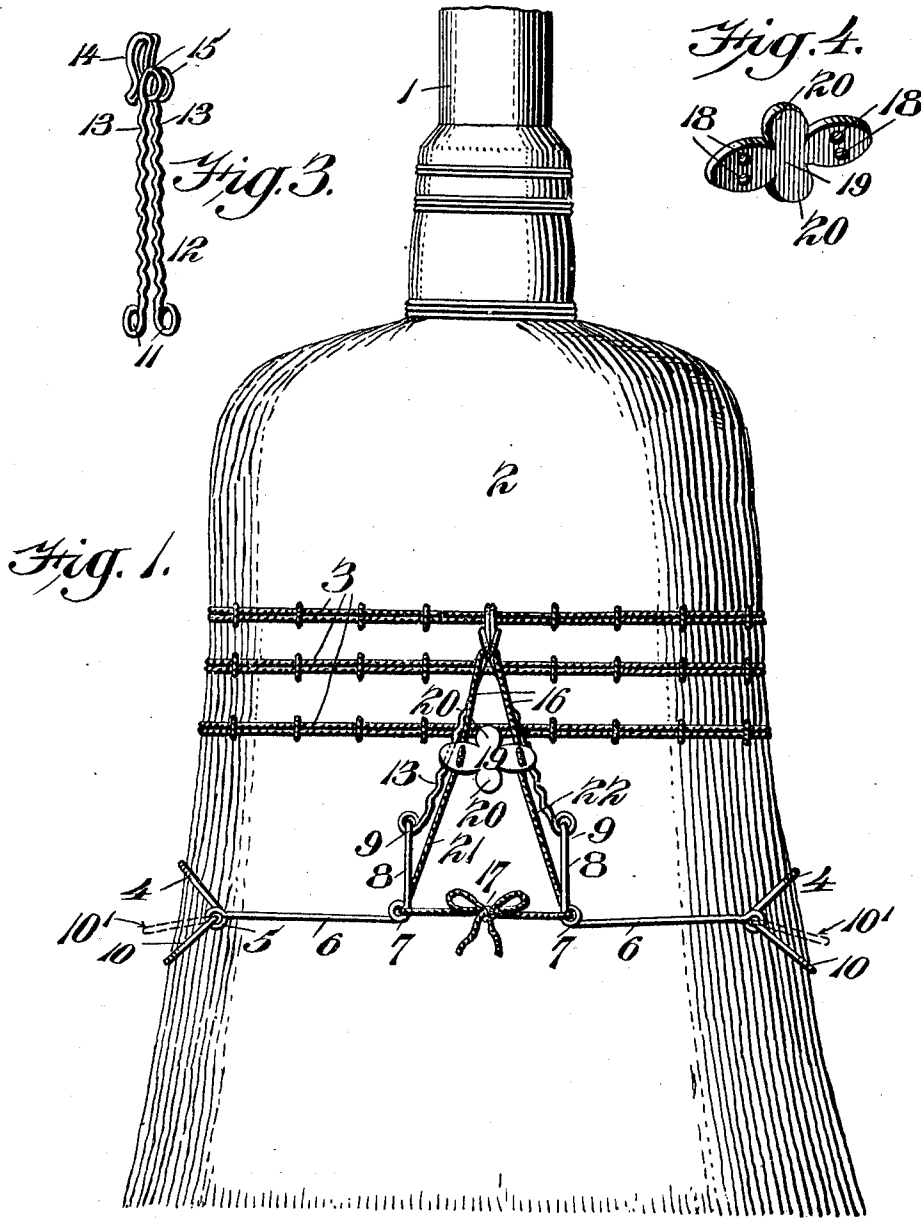


S. G. WILSON.
BROOM ATTACHMENT.
APPLICATION FILED JAN. 21, 1908.

953,112.

Patented Mar. 29, 1910.



UNITED STATES PATENT OFFICE.

STEPHEN G. WILSON, OF PHILADELPHIA, PENNSYLVANIA.

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Specification of Letters Patent. Patented Mar. 29, 1910.

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To all whom it may concern:

Be it known that I, STEPHEN G. WILSON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Broom Attachment, of which the following is a specification.

The purpose of my invention is to provide a simple and durable broom guard which can be readily adjusted and which can be held in place by spring tension.

A further purpose of my invention is to provide for adjustment of the tension of the guard according to the character of the sweeping or scrubbing for which it is intended.

A further purpose of my invention is to provide a broom guard with broom engaging members having spring parts upon opposite edges of the broom, which parts are united by a flexible connection upon the center of each flat side of the broom, and to use a tension device to take up the flexible connection.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

For the purpose of illustrating my invention, I have shown the form thereof at present preferred by me, since this embodiment best illustrates the principle of the invention and gives satisfactory and reliable results in practice, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown.

Figure 1 represents a broom in side elevation illustrating one form of my invention. Fig. 2 represents, in perspective, one of the edge members applied in Fig. 1. Fig. 3 represents, in perspective, a side connection of which I make use. Fig. 4 represents, in perspective, the "take-up" by which I tighten flexible connections.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings. 1 designates the handle of a broom having a body 2 which is sewed, banded or bonded at 3 in any suitable or usual manner.

My guard is intended to retain and pro-

tect the splints below the usual banding 3 and to be adjusted to varying degrees of rigidity according to the particular purpose for which the broom is, at the time, being used. It comprises edge members of like construction and fastening means upon opposite sides of the broom.

The portion of the guard coming in contact with the splints at the edge of the broom is best seen in Fig. 2 where the loop 4 is shown united by coils 5 with side bars 6 which extend, when in position, substantially parallel to the binding or banding 3. The side bars 6 are coiled at 7 and are extended at 8 nearly parallel with the handle of the broom to terminal eyes 9.

A loop 10, not shown in Fig. 2, is pivoted in the eyes formed by the coils 5 so as to hang in the position shown by Fig. 1. Under the strain of the splints in use this loop will work up to positions such as shown in dotted lines in Fig. 1 while still supporting the splints.

It will be seen that the loops 4 and 10 do not press perpendicularly against the broom avoiding direct transverse strain of these loops upon the splints. This is then true of the loops 4 and 10 whether they are spring pressed against the splints or whether they rest against the splints by their weight and take strain from the splints during the operation of the broom.

The loop 4 fits against the edge of the broom body disposing the several meeting parts of the structure shown in Fig. 2 upon opposite sides of the broom. Upon the same side of the broom there are, therefore, a single extension 8 and an eye 9 from each of two bars 6 located upon that side of the broom. These eyes 9 engage the eyes 11 of a hook 12 having corrugated arms 13, normally lying in the position shown in Fig. 3, or when stretched laterally as seen in Fig. 1, tending to bring the eyes 9 there shown together.

The hook 12 engages with any one of the bonds or bands 3, by means of nose 14, which is united to the body of the hook by coils forming eyes 15. These coils perform the double function of giving resilience to the structure shown in Fig. 3 against strain longitudinally of the wires as there shown and against lateral parting of the arms 13, and provide attachment for a cord 16 preferably

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tied or otherwise secured therein, and extending down through eyes 7 to a tying point 17 between the side members.

5 The cord 16 may be initially tightened to any desirable degree and is further capable of adjustment by passing each side thereof through openings 18 of a keeper 19 whose tabs 20 afford ears by which it may be drawn in either direction with consequent
10 tightening or loosening of the cord.

It will be evident that the side members engage with the broom splints at loops 4 without excessive injury thereto and are held in contact with said splints both by the direct strain of the cord 16 and by the inward
15 tension of the arms 13 acting upon the bell cranks formed by the parts 8 and 6 respectively, whose pivotal points are in the coils.

20 It will be further evident that the movement of the keeper 19 vertically on the cord will draw the portions 21, 22 of the cord 16 together or release them, as the case may be, with consequent shortening or lengthening
25 of the distances between coils 7 upon the same side of the broom.

The construction shown in Fig. 1 may be duplicated upon the opposite side thereof and the side portions of my guard will thus
30 be drawn resiliently against the splints with the loops 4 pressed against said splints at an angle, and with the pending loops 10 moving freely about the eyes 5 with consequent relief or pressure and support upon the splints
35 at this point, following them up into the position shown when the broom is not in use.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a device of the character described, 40 edge engaging devices, bell crank extensions extending from said edge engaging devices and terminating in eyes, coils intermediate the arms of said bell crank extensions, a resilient connection between the terminal eyes 45 of different bell crank extensions, a cord connecting said resilient connection and said coils, and a keeper movable on said cord to adjust the tension thereof.

2. In a device of the character described, 50 edge engaging devices, arms engaging therewith terminating in eyes and having coils intermediate their ends, bifurcated resilient devices connected at the extremities of their bifurcations to said eyes, eyes intermediate 55 the length of the bifurcated parts of said resilient devices, and a flexible connection uniting said coils and resilient devices.

3. In a device of the character described, 60 edge engaging devices, arms connected therewith, arms at an angle with said first arms terminating in eyes, coils intermediate the arms at an angle, a hook having resilient arms joining said terminal eyes, a flexible connection between the intermediate coils 65 and said hook, and a keeper movable on said flexible connection for adjustment thereof.

STEPHEN G. WILSON.

Witnesses:

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