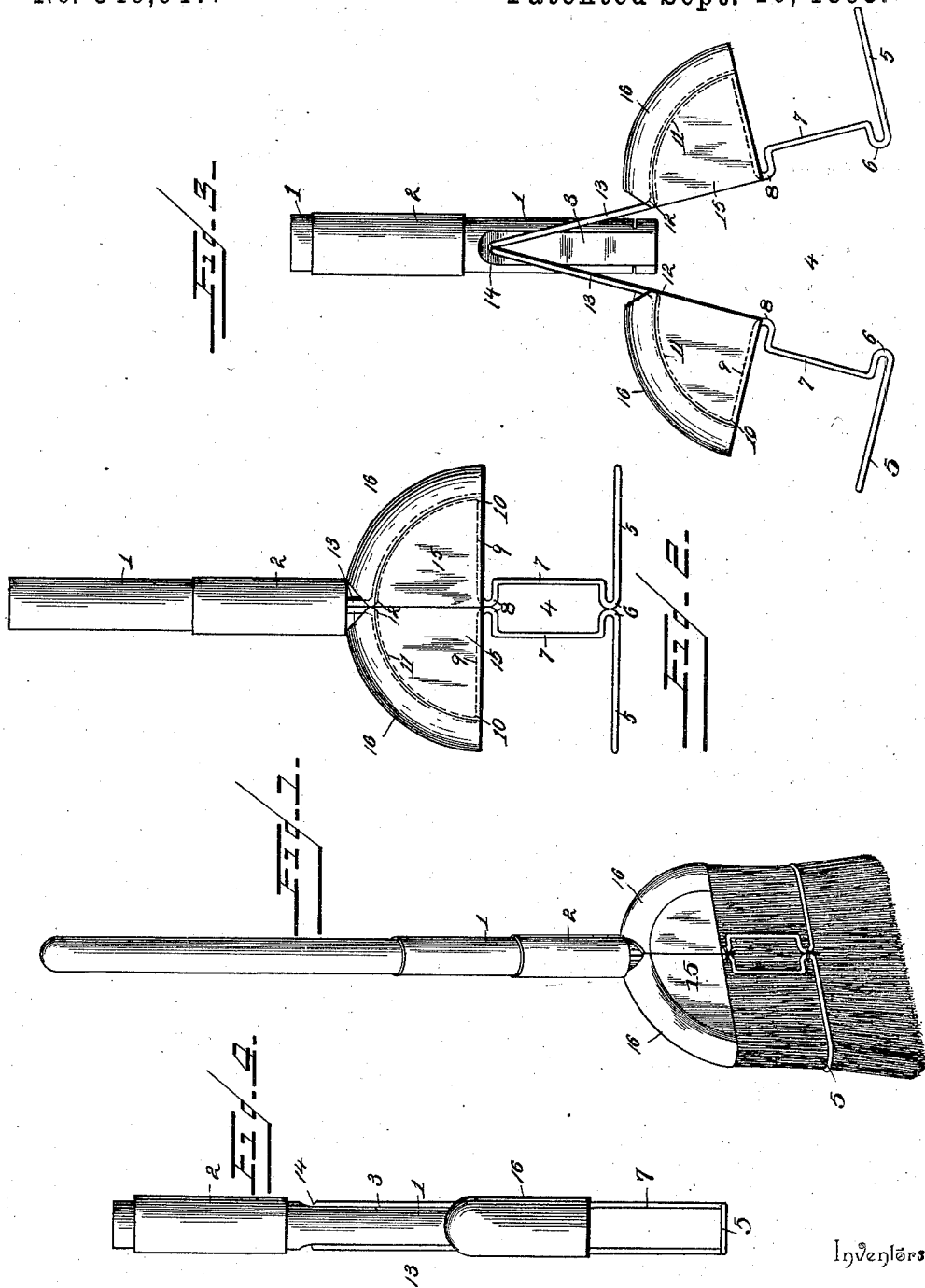


(No Model.)

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BROOM.

No. 546,047.

Patented Sept. 10, 1895.



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BROOM.

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To all whom it may concern:

Be it known that we, ISAAC G. HARDIN and THOMAS T. WATSON, of Savannah, county of Hardin, State of Tennessee, have invented certain new and useful Improvements in Brooms; and we hereby declare the following to be a full, clear, and accurate description of our invention, such as will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings.

This invention relates to an improvement in brooms, the object of the invention being to provide a simple and efficient holding and protecting device in the form of an elastic brace or stay for the brush part of the broom, whereby the latter will be protected and supported in such manner as to increase the life of the broom and at the same time render the broom efficient in use.

To this end the invention consists in certain novel features and details of construction and arrangement, as hereinafter fully described, illustrated in the drawings, and pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of a broom constructed in accordance with this invention. Fig. 2 is an enlarged side view of the holding device, the broom being omitted. Fig. 3 is a similar view with the hinged members of the holder separated or in position to receive and embrace the head of a broom. Fig. 4 is an end view taken at right angles to Fig. 2.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the drawings, 1 designates a suitable stick or handle to which the broom-head is to be applied.

2 indicates a sleeve or boot which surrounds the handle or stick 1, being adapted to slide longitudinally thereof. The lower end of the stick or handle 1 is flattened upon either side, as indicated at 3, facilitating the attachment of an oppositely-disposed pair of hinged stay-frames, which will now be described.

The hinged frames or stays indicated at 4 are exactly similar in construction, each being formed principally from a wire blank, which is bent at its central portion to form an

open or three-sided loop 5, adapted to embrace one-half of the head of the broom. The terminals of the wire are bent at corresponding points to form small loops 6, after which they are extended vertically a short distance, forming parallel arms 7, arranged on either side of the broom-head, at the upper ends of which the terminals are again bent to form loops 8, after which said terminals are extended laterally and in parallel relation to form horizontal arms 9, reaching nearly to the sides of the broom-head, where they are given a bend at the point 10, and are extended from thence in a curve or arc 11, conforming to the curvature of the upper portion of the broom-head. The terminals are again bent at 12 and extended to form upwardly-projecting arms or portions 13, the upper ends of which are bent or hooked inwardly toward each other and inserted into horizontally-aligned perforations 14 at the upper end of the flattened portion 3 of the socket-piece 1. Two elastic or spring frames are thus formed, both of which have their hooked ends engaging the perforations 14, said frames being adapted to snugly embrace the straws and head of the broom from opposite sides, forming an effective brace or stay for imparting strength and durability to the broom. The frames 4 are further provided with oppositely-disposed protecting-plates 15, substantially in the form of quadrants, soldered or otherwise secured to the portions 9 and 11 of said frames upon both sides, and as an additional protection to the curved portions of the broom-head said frames are provided with curved sheaths or guards 16 substantially semicircular in cross-sectional shape.

In operation the broom-head is first brought near to the lower end of the stick or handle 1 into position to receive the hinged members. The hinged members or spring-frames 4 are then brought together and caused to embrace the head of the broom, as indicated in Fig. 1, after which pieces of wire are passed around and twisted upon the small eyes or loops 6 and 8 for firmly holding the hinged members together. The sleeve or boot 2 is slid down over the upwardly-projecting arms 13 of the hinged members, which are thus firmly held together and prevented from separating and releasing the broom.

The device above described is very simple in construction, may be manufactured at a nominal cost, and will effectively protect the head of the broom and extend the life thereof in a manner that will be readily understood.

Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or invention.

Having thus fully described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. An elastic frame for embracing the heads of brooms, the same comprising a handle or stick having its lower end partially cut away upon opposite sides to form flattened portions, a pair of pivoted members hinged thereto and having their journal portions inserted in a transverse perforation extending between such flattened portions and having their longitudinally extending arms resting against said flattened portions, and a longi-

tudinally sliding boot or sleeve disposed around said handle and also embracing the longitudinal arms of said pivoted members, substantially as and for the purpose described.

2. A clasp frame for the heads of brooms, the same comprising a handle, an oppositely disposed pair of looped wire frames hinged to said handle and adapted to embrace the side edges of the head of the broom, quadrant plates united to and forming part of said frames, supplemental segmental sheaths also united to said frames and adapted to surround and protect the upper curved portion of the broom head, and means for holding the swinging ends of said frames together and in engagement with the head of the broom, substantially as and for the purpose specified.

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