

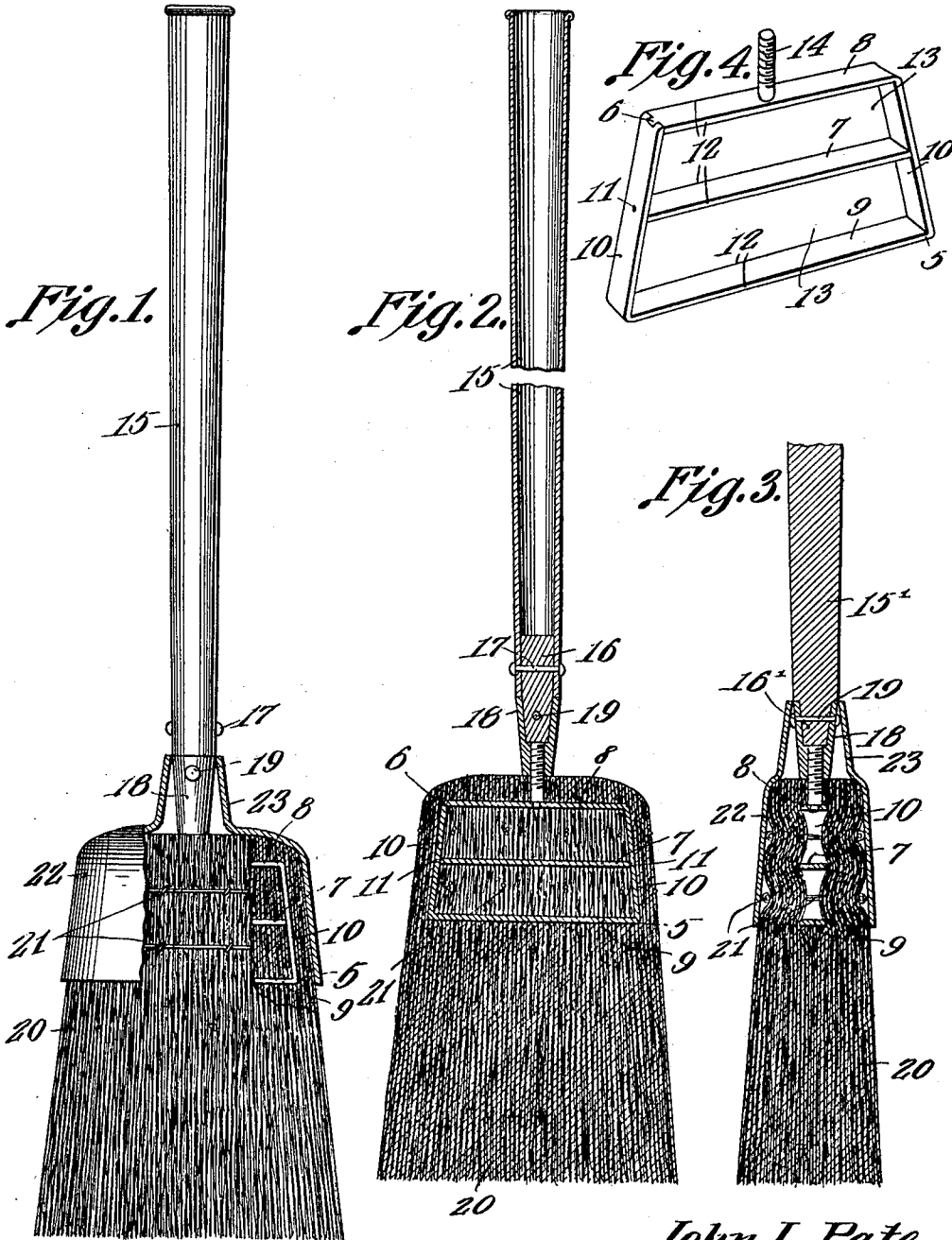
J. L. PATE.

BROOM.

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1.051,819.

Patented Jan. 28, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN LOUIS PATE, OF MADISONVILLE, KENTUCKY.

BROOM.

1,051,819.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN L. PATE, a citizen of the United States, residing at Madisonville, in the county of Hopkins and State of Kentucky, have invented a new and useful Broom, of which the following is a specification.

This invention relates to brooms, and has for its primary object to provide a broom embodying a head to which the straws or broom corn may be readily attached and embodying a handle detachably connected to the head in order that when the straws or broom corn becomes worn, the same may be readily replaced on the head by new straws or broom corn.

A further object of the present invention is to provide a novel broom head for the attachment of the straws or broom corn, and which will prevent the straws from slipping or falling therefrom.

Another object of the present invention is to provide a broom head of the character described which shall be simple, durable, substantial and inexpensive in construction, and to which the straws may be readily attached to provide a substantial and desirable broom.

With the foregoing and other objects in view, which will be apparent as the invention is better understood, this invention is embodied in the novel construction and combination of parts hereinafter described and particularly set forth in the appended claim, the invention being illustrated in its preferred embodiment in the accompanying drawings, wherein similar reference characters have been employed to designate corresponding parts, and wherein:—

Figure 1 is an elevation of a complete broom constructed in accordance with the present invention, parts being broken away, and a tubular handle being employed. Fig. 2 is a longitudinal central section thereof, parts being broken away. Fig. 3 is a longitudinal central section taken on a plane at right angles to the plane on which the section of Fig. 2 is taken, a wooden or solid handle being employed and part of the handle being broken away. Fig. 4 is a perspective of the broom head.

Referring in detail to the drawings, the broom head is constructed of a strip or flat bar of metal 5 bent to form a trapezoidal frame with the ends rabbeted together as designated by the numeral 6 at one corner,

and a cross bar or strip of metal 7 intermediate the upper and lower, or short and long, parallel portions 8 and 9, respectively, and having its ends riveted to the diverging portions or ends 10 of the frame, as designated by the numeral 11. The frame thus constructed embodies two end strips and three cross strips therebetween lying in parallel planes, the strips being relatively wide and thin to present well defined edges at the sides of the frame. The shortest or upper parallel portion 8 has a threaded stem 14 secured thereto for the attachment of the broom handle.

Any form of handle may be provided for attachment to the broom head, two forms being disclosed in the drawings. As shown in Figs. 1 and 2, the handle 15 is tubular and constructed of sheet metal, and has a wooden or other plug 16 secured in the lower or inner end thereof by means of a rivet 17 or other securing member, the plug 16 projecting beyond the end of the handle. A ferrule 18 is engaged on the projecting end of the plug 16, and is preferably secured thereto by means of a rivet or other securing member 19. This ferrule 18 is adapted to be screwed onto the outer or upper end of the stem 14 in order to attach the handle to the broom head. In the form shown in Fig. 3, the handle 15' is solid, the same as the ordinary wooden handle, and has the lower reduced end 16' on which the ferrule 18 is engaged.

The broom straws or broom corn have been designated by the numeral 20, and in constructing the broom, the straws or fibers are divided into two layers and their butt ends are placed or arranged against the sides of the head and held against the same by any suitable clamp, or in any suitable manner, and twine, designated by the numeral 21 is passed around the fibers so as to encompass them between the planes of the cross strips and is stitched through the fibers to draw the same inwardly between and tightly against the edges of the cross strips, in order to prevent the straws from pulling out of engagement with the head. The two layers of fibers resting against the respective sides of the frame blend together over the ends of the frame so as to completely envelop the frame.

A sheath or shield 22 is preferably provided for the upper end of the straws in order to envelop same and this sheath or shield is provided with a contracted portion

23 encompassing the lower end of the handle.

It will therefore follow, that when the straws have become worn so as to render the
5 broom inefficient for sweeping, the straws may be readily removed from the broom head by loosening or cutting the twine, and then the broom head may be detached from the handle so that the broom head may be
10 sent to the manufacturer for the attachment of new straws thereto. When the broom head is again received with the new straws attached thereto, the handle may be readily engaged on the screw 14 which is left projecting be-
15 yond the straws, and the broom is then again ready for use.

Having described the invention, what is claimed as new is:—

In a broom head, a frame embodying end
20 strips and three cross strips therebetween

lying in parallel planes, the strips being relatively wide and thin to present well defined edges at the sides of the frame, two layers of fibers resting against the sides of the frame and blending together over the
25 ends of the frame, twine encompassing the fibers between the planes of the cross strips and stitched through the fibers to draw the same inwardly between and slightly against the edges of the cross strips, and a handle at-
30 taching stem projecting from the upper cross strip.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN LOUIS PATE.

Witnesses:

RUTH SWINNEY,
LEE GIBSON.

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