

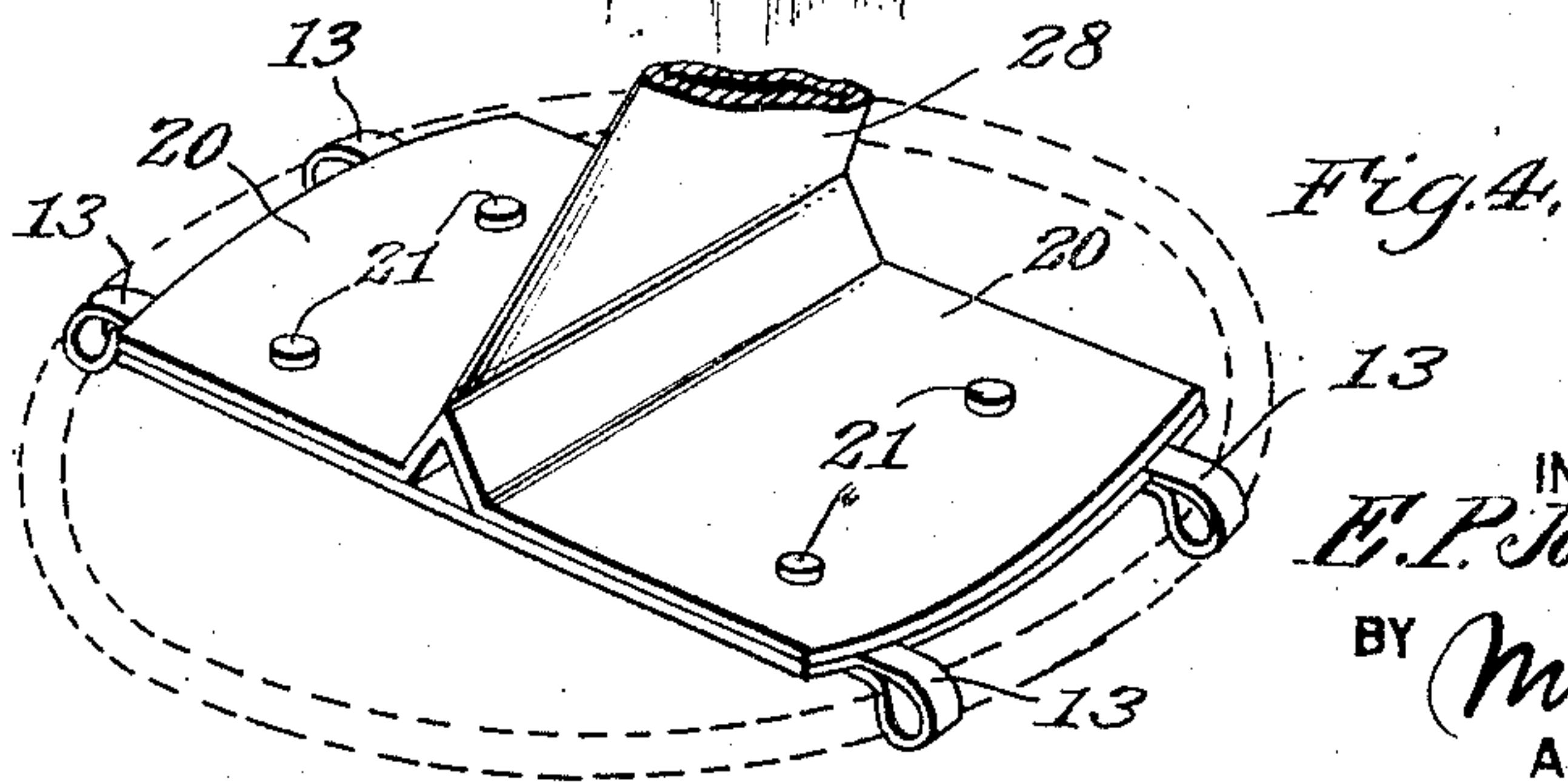
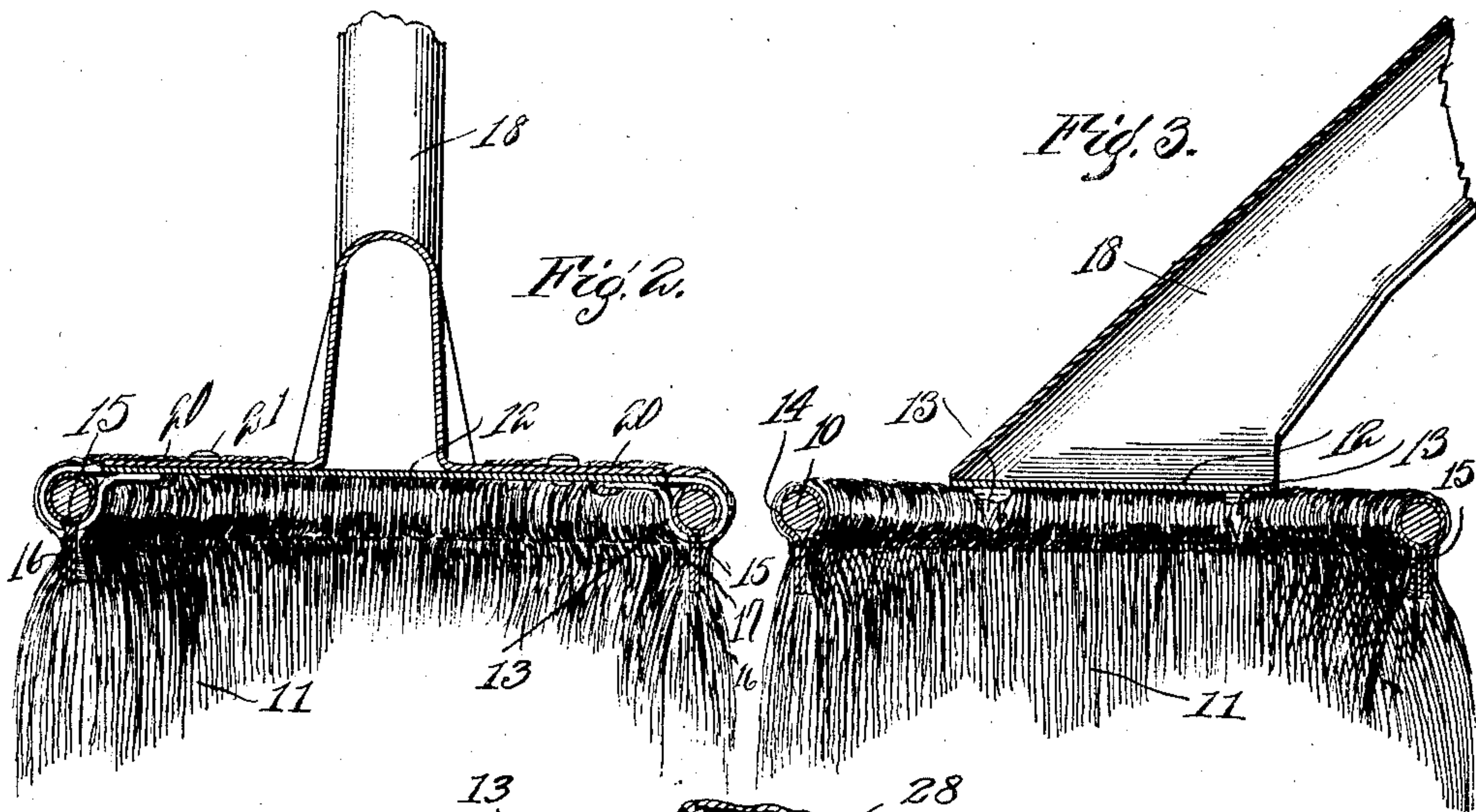
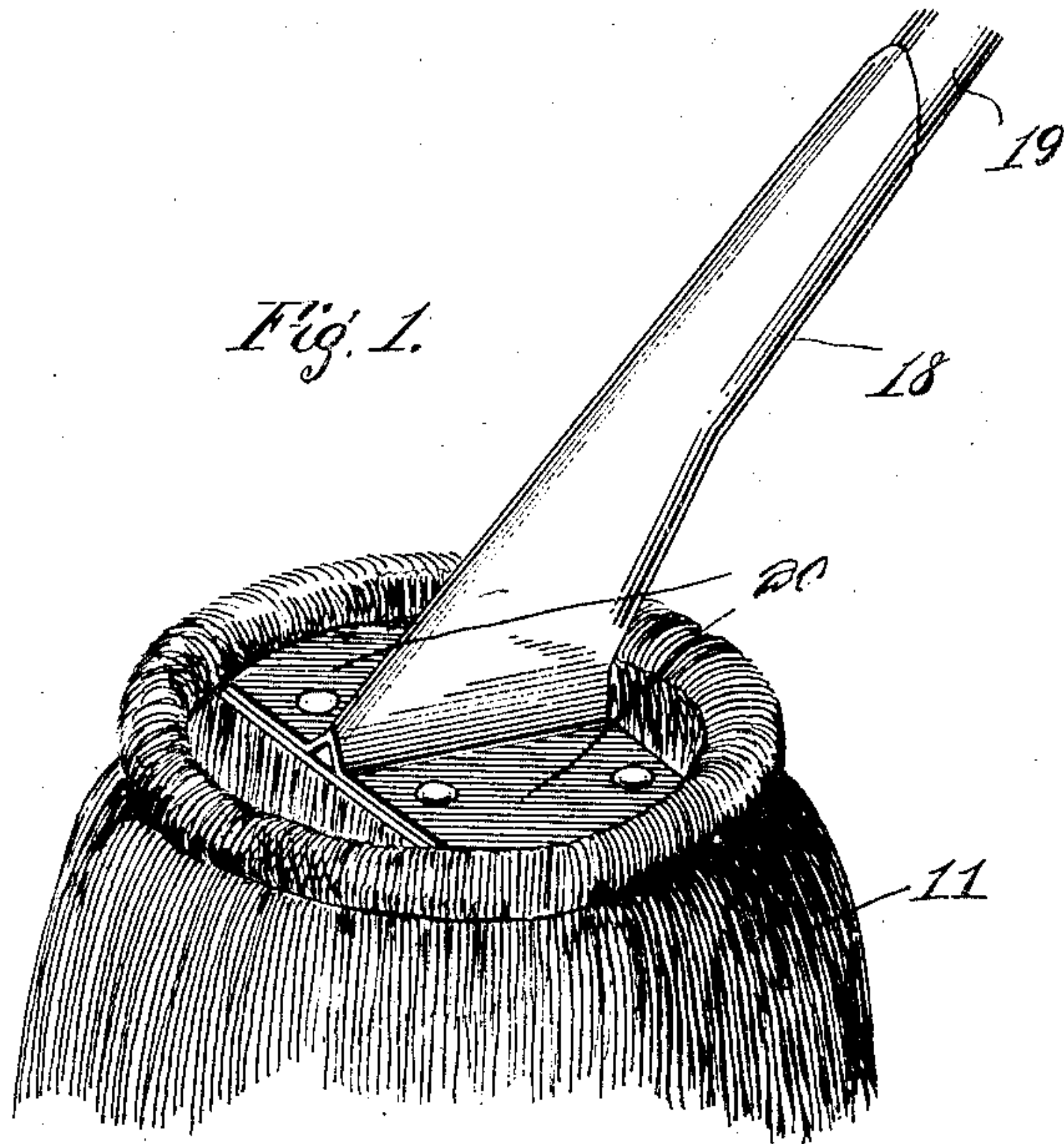
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SCRUBBING MOP

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WITNESSES  
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## UNITED STATES PATENT OFFICE.

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## SCRUBBING MOP.

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My present invention relates generally to mops, and more particularly to floor mops of the scrubbing type, that is the types which in use are subjected to the wear and tear of heavy pressure and friction as well as to the action of water and the scrubbing materials, such as soap and soap powders, which are used therewith.

My primary object is the provision of a scrubbing mop which will be strong and durable in use and which will at the same time be light in weight, easy to handle and effective in its action, and a further object is the provision of a mop of this type, the yarn of which will automatically spread and rapidly dry when the mop is inverted after use, so as to effectively avoid molding and knotting of the yarn as well as rusting or corrosion of the metal parts.

In the accompanying drawing which illustrates my present invention and forms a part of this specification,

Figure 1 is a perspective view of my improved mop.

Figure 2 is a vertical transverse sectional view taken therethrough, substantially along the longitudinal center of the support cross plate,

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2, and

Figure 4 is a fragmentary view in perspective of the frame of the device with the mop fabric removed therefrom.

Referring now to these figures my invention proposes a scrubbing mop whose definite shape is insured at all times by virtue of a body ring 10 of sufficient diameter to hold the yarn 11 from adhering as in a swab, and of sufficiently heavy gauge metal to insure long life and avoid all danger of becoming deformed.

Across the ring 10, a supporting plate 12 is extended, this plate having recessed end portions, leaving integral extensions 13 at the corners which are bent downwardly around the ring 10 at spaced points, the ends of these clamping extensions being preferably rigidly connected to the lower surface of the cross plate as by means of spot welding.

Around the ring 10 a fabric covering 14 is secured as by means of stitching 15, with the free edges of the fabric depending below the ring as at 16, so as to present a convenient and effective anchor for the yarn 11, the strands of which are looped over the ring

and then held by stitching 17 immediately below the ring to the depending portions 16 of the fabric covering 14. Otherwise the strands of yarn depend freely so that when the mop, after use and the removal of superfluous water, is inverted, the ring 10 is well able to hold the strands apart and permit air to freely circulate through the strands so as to insure quick drying. In this way the danger of molding is avoided.

The handle support 18 is of elongated tubular form, open at one end to receive a handle 19 suitable for the purpose. The other flaring end of the handle support terminates in a pair of integral laterally projecting wings 20 in the same plane so as to rest flatwise against the supporting cross plate 12, and at such angle with respect to said handle support as to bring the latter at a proper convenient angle to the mop head. The wings 20 are suitably connected to the supporting cross plate 12 as by means of rivets 21 or by spot welding and the like.

A mop constructed as proposed by my invention and as thus described, may be made light in weight and at the same time strong and durable, is especially convenient and easy to manipulate in use, and will avoid the disadvantages commonly incident to scrubbing mops of the usual swab type.

I claim:

1. A scrubbing mop including a ring, padding secured to the ring and depending therebelow, yarn looped in strands over said ring, stitches connecting the yarn strands below the ring, a handle support, and a supporting cross plate to which said handle support is connected, said plate disposed diametrically across the ring and having recessed ends forming corner extensions, the said extensions being secured around the ring, permitting the yarn to extend substantially continuous around the ring.

2. A scrubbing mop including a yarn supporting ring of rigid form, a supporting cross plate diametrically of said ring and connected at its corners to spaced points around the ring, and a tubular handle support having a lower flaring end terminating in laterally outstanding and angularly disposed wings, said wings being secured flatwise against the said cross plate.

3. A scrubbing mop including an open annular body, yarn secured in looped relation over said body, a handle, a supporting member for said handle extending diametri-



cally of the opening of said body, and securing members extending from said supporting member and connecting said body in spaced relation about the same, the spaces  
5 between said securing members and at the opposite ends of said supporting member permitting the yarn to extend substantially continuous about the body.

4. A scrubbing mop including a yarn  
10 supporting body open at its center, a supporting member disposed in spaced relation

to and within the central opening of said body and connected to the latter at its opposite ends and at points spaced one from the other, and a handle support rising from said  
15 supporting member, the spaces between the points of connection of said supporting member and said body permitting the yarn to extend substantially continuous about the body.

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