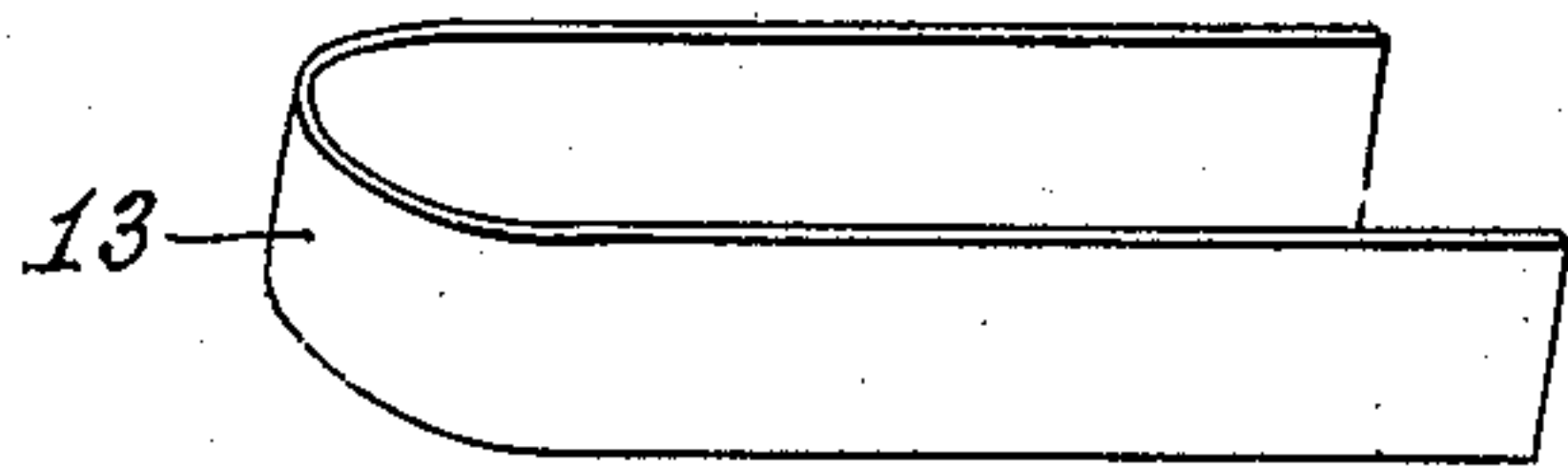
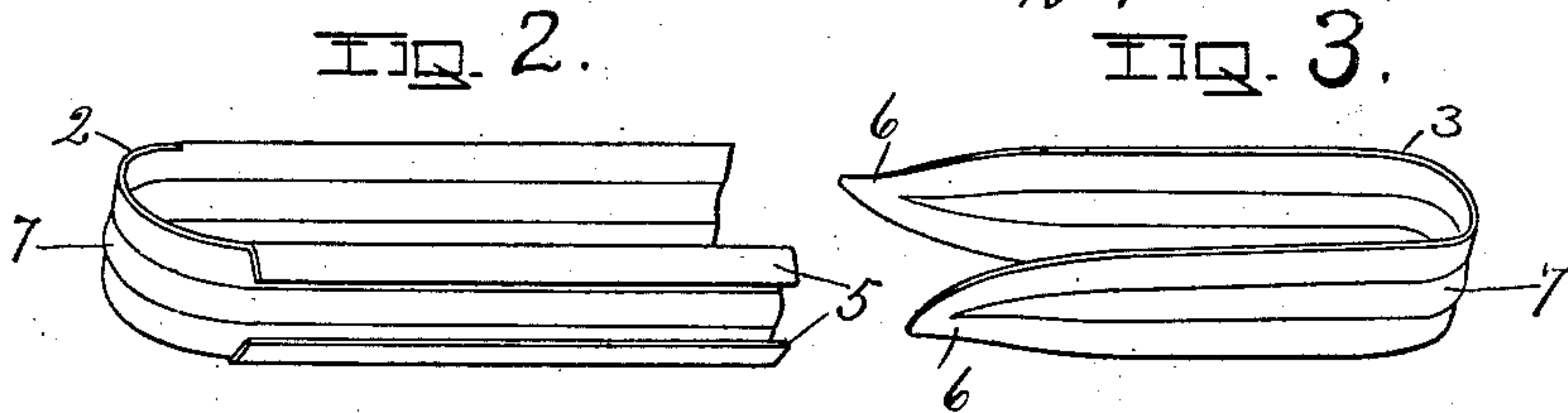
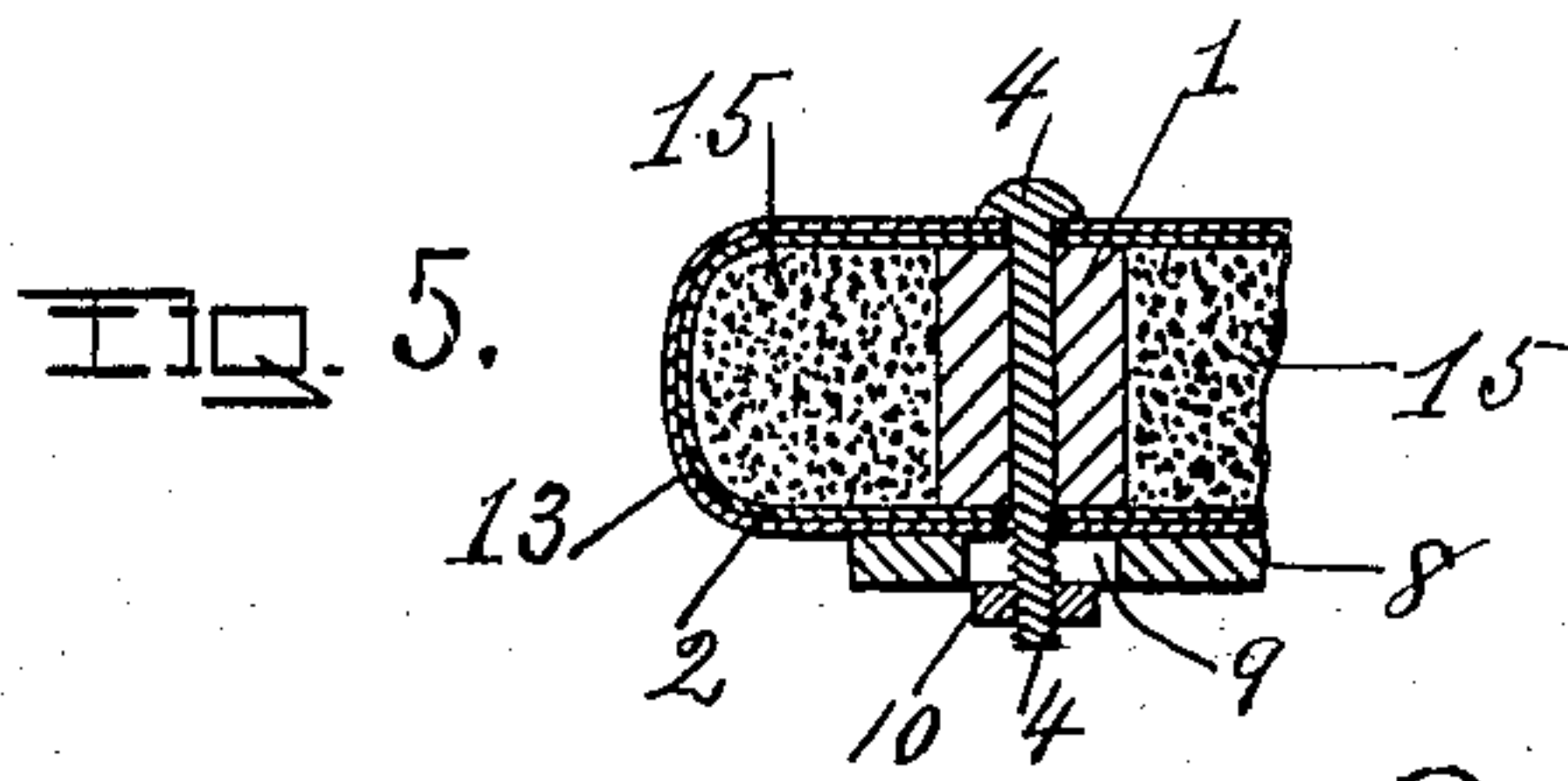
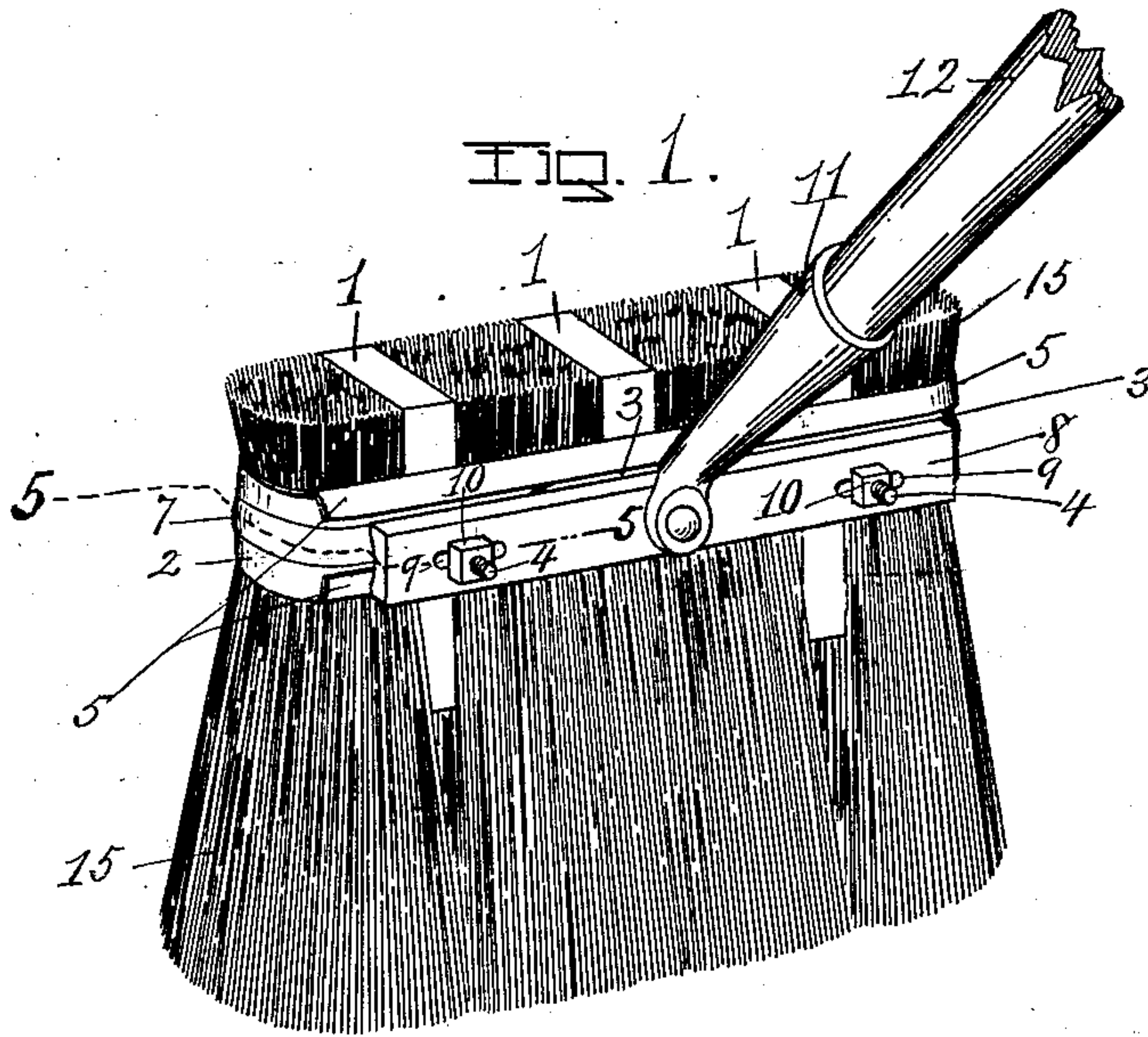


E. BROWN.  
BROOM.

APPLICATION FILED APR. 22, 1907.

898,629.

Patented Sept. 15, 1908.



WITNESSES

J. Donabach  
C. M. O'Reilly.

INVENTOR

Edward Brown.  
By Mosher & Curtis,  
attys.



# UNITED STATES PATENT OFFICE.

EDWARD BROWN, OF FORT HUNTER, NEW YORK.

## BROOM.

No. 898,629.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed April 22, 1907. Serial No. 369,448.

*To all whom it may concern:*

Be it known that I, EDWARD BROWN, a citizen of the United States, residing at Fort Hunter, county of Montgomery, and State of New York, have invented certain new and useful Improvements in Brooms, of which the following is a specification.

The invention relates to such improvements and consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification. Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in perspective of a broom embodying my invention. Fig. 2 is a view in perspective of the female member of the head-band. Fig. 3 is a similar view of the male member of the head-band. Fig. 4 is a similar view of a supplemental band-member for reinforcing the band when desired. Fig. 5 is a horizontal cross-section taken on the plane of the broken line 5—5 in Fig. 1, with the supplemental band-member applied to the head.

The principal object of the invention is to provide a simple, cheap and efficient head or holder for brooms, mops and the like.

I have shown the invention applied to a broom or brush, but it is also applicable to mops.

Referring to the drawings wherein the invention is shown in preferred form, the broom-head comprises a plurality of spacing and supporting blocks, 1, inclosed within a head-band formed by the union of the female band-member, 2, and the male band-member, 3, and bolt-connections, 4, inserted through lapping portions of the band-members and certain of the blocks 1.

The spaces inclosed between the head-band and the several blocks, 1, are filled with brush-stock or the like, such as broom-corn, ratan, or other similar material, adapted to the use for which the article is intended. If the article is to be used as a mop, these spaces would be filled with fabric, or rags, or similar material.

The female band-member is preferably composed of a U-shaped piece of sheet-metal having its edges retroverted on the outer side of its parallel arms, thereby forming flanges, 5, which flanges extend from the ends of the U-shaped member, approximately to the

curved intermediate portion thereof. The male band-member is similarly U-shaped and formed of sheet-metal, and has its ends, 6, pointed and slightly outturned as shown in Fig. 3. Each of the band-members is provided with a longitudinal corrugation, 7, whereby they are stiffened.

The female band-member is approximately of the length of the brush-head; and, in making the brush-head, the pointed ends of the male band-member are severally inserted between the edge-flanges, 5, of one arm of the female band-member, and the two band-members are then telescopically forced together until the flanged ends of the female band-member are bent to conform to the curved intermediate portion of the male band-member, after which the ends of the flanges, 5, where curved around the curved portion of the male band-member, are crushed down and serve to retain the parts in their connected position.

By having the ends of the male band-member tapered, and bent outwardly as shown, the parallel arms of the male member will easily enter between the edge-flanges of the respective arms of the female band-member as the members are telescopically brought together.

After the brush-head has been formed, the ends, 6, of the male band-member may be cut off or bent inwardly in order that they shall not present unsightly or dangerous projections on the brush-head.

In making a broom, brush, mop, or the like, the stock, 15, and blocks, 1, are alternately arranged in the order shown in Fig. 1. The members of the head-band are then applied to the assembled stock and blocks, and are then forced together in the manner just above described. For this purpose it is desirable to use a press with dies adapted to receive the assembled parts and force the band-members together with sufficient pressure to tightly inclose and bind together the inclosed stock. When the parts have been thus assembled, the bolts, 4, are inserted through lapping portions of the head-band and certain of the blocks, 1, and serve to tightly secure the parts in position.

In Figs. 1 and 5, I have shown the brush-head thus formed mounted upon a handle-plate, 8, secured to the head by means of the same bolts, 4, whereby the parts of the head are held together, said bolts, 4, passing through apertures or slots, 9, formed in



said plate, which is held in position by the nuts, 10, on said bolts. The plate, 9, is provided with a socket, 11, adapted to receive a handle 12.

5 If it be desired to reinforce the head-band, a supplemental band-member, 13, may be employed, such a member being shown in Figs. 4 and 5. The supplemental band-member is preferably slightly smaller than  
10 the female band-member, and is adapted to be received between the edge-flanges, 5, of the female band-member.

In assembling the parts, the female band-member is first nested within the supplemental band-member, after which the male  
15 band-member is applied in the same manner as above described, except that its branches embrace between them the branches of both the supplemental and female band-members.

20 What I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described a head comprising spacing and supporting blocks, an inclosing telescoping head-band, and fast-  
25 tening devices inserted through lapping portions of said head-band and certain of said blocks.

2. In a device of the class described, the combination with a head comprising spacing and supporting blocks, an inclosing  
30 telescoping head-band, one member of which has retroverted edge flanges to receive the other member thereof and fastening devices inserted through lapping portions of said  
35 head-band and certain of said blocks; of stock inserted and secured in the spaces between said head-band and fastening blocks.

3. In a device of the class described, a  
40 head-band comprising two U-shaped sheet-metal members, one having retroverted

flanges on its parallel arms adapted to receive the edges of the parallel arms of the other member in combination with fastening devices inserted through lapping portions of said band-members.

4. In a device of the class described, a head-band comprising two U-shaped sheet-metal members, one having retroverted  
45 flanges on its parallel arms adapted to receive the edges of the parallel arms of the other member, said other member having tapered, outwardly bent ends. 50

5. In a device of the class described, the combination with a head-band having lapping members, and bolts having screw-  
55 threaded ends projecting through the lapping members of the head-band on one side of the head; of a handle-plate provided with apertures to receive said bolts; and nuts on the ends of said bolts, whereby said plate and the  
60 lapping members of the head-band are secured together.

6. In a device of the class described, the combination with a head consisting of spacing and supporting blocks, an inclosing  
65 head-band comprising two sheet-metal members, one having retroverted edge-flanges on its parallel arms adapted to receive the parallel arms of the other member, and bolts inserted through lapping portions of said  
70 head-band and certain of said blocks; of stock compressed and held between said head-band and the respective spacing and supporting blocks.

In testimony whereof, I have hereunto set  
my hand this 5 day of April, 1907. 75

EDWARD BROWN.

Witnesses:

E. H. KEY,  
H. H. JOHNSON.