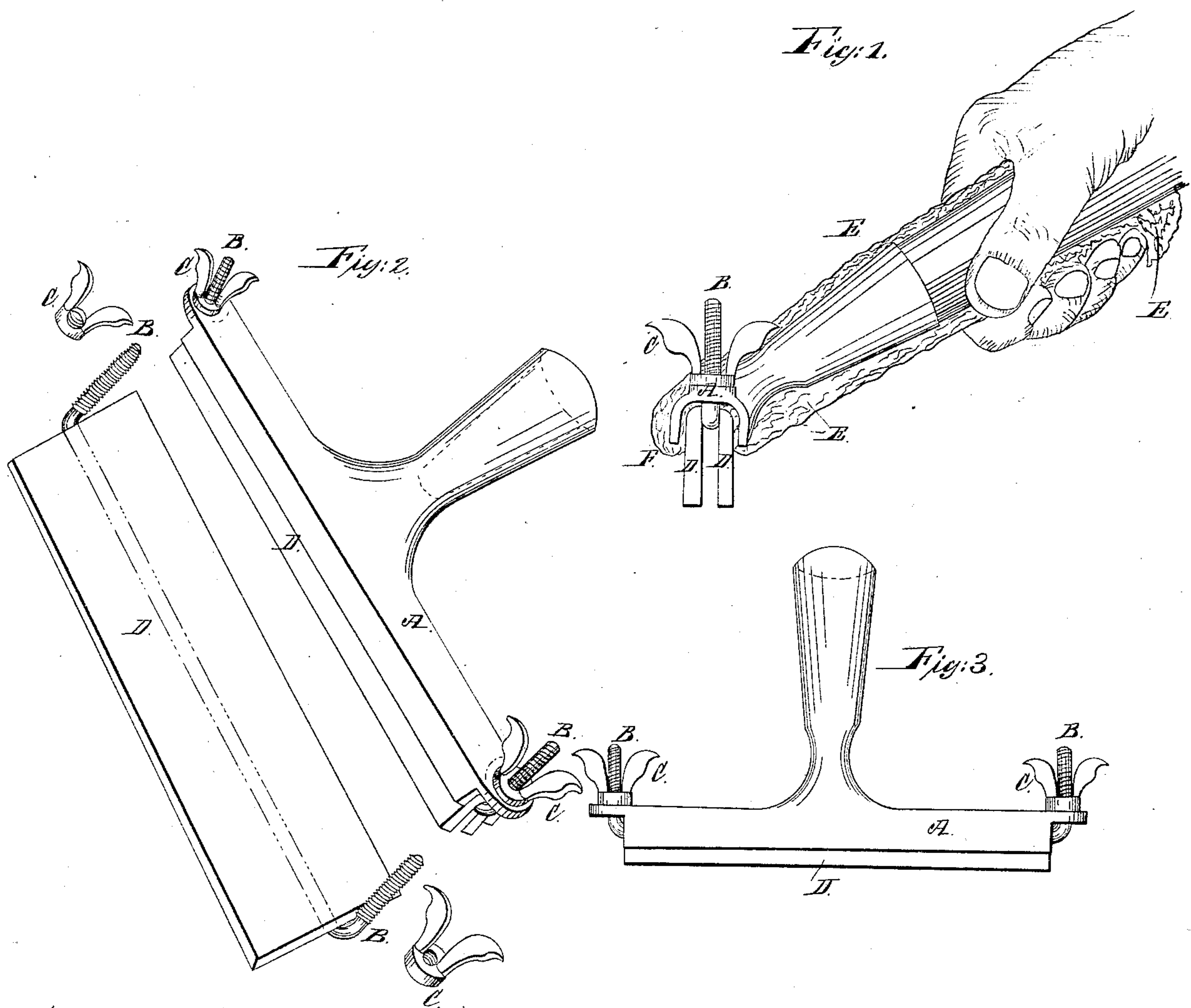


W.S. Bullen,  
 Scrubbing Brush and Mop.  
 N<sup>o</sup> 44,832. Patented Oct. 25, 1864.



Witnesses:

S. R. Martin  
 R. J. Moulton

Inventor:

W.S. Bullen



# UNITED STATES PATENT OFFICE.

WILLIAM S. BULLEN, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO HIMSELF  
AND WM. O. MCINTIRE, OF SAME PLACE.

## IMPROVED SCRUBBER AND MOP.

Specification forming part of Letters Patent No. 44,832, dated October 25, 1864.

*To all whom it may concern:*

Be it known that I, WILLIAM S. BULLEN, of Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Combined Floor Mops and Scrubbers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the formation of a mop-head of either iron or wood, with a semicircular groove cut or cast in the under side, and an adjustable rod to clamp therein any kind of fibrous or absorbent material suitable for mopping or absorbing moisture, and at the same time it clamps and firmly holds a strip of india-rubber, giving to said rubber a U shape longitudinally, and presenting the edges of said india-rubber downward, so as to admit of their use in rubbing or scrubbing dirty floors or other wood-work. The fibrous mop may be stripped back on the handle and held there while the first cleansing operation—of scrubbing with the U-shaped india-rubber—is being performed, after which the operator has only to drop down the mop-rag and proceed, without a moment's delay, to finish the work.

In referring to the accompanying drawings, it will be borne in mind that like letters refer to like parts in all the figures, and these drawings will constitute a part of this description, viz:

Figure 1 is a side elevation of the combined mop and scrubber with the mop turned back upon the handle, exposing the scrubber for actual use. Fig. 2 exhibits the mop-head in perspective, with the india-rubber scrubber in its proper place in the machine; also shows the sheet of india-rubber just as it is placed upon the compressor-rod before being drawn into the U-shaped groove for actual use. Fig. 3 is a front view of the mop-head when the scrubber only is used.

A is the mop head, which may be made of cast-iron or any other material which is suitably strong. It is provided with a socket for a handle, or may have a shank instead. It may be made of any size or length, although about ten to twelve inches long will be found most convenient. It is in all other respects quite similar to the usual forms of mop-heads,

with the exception of the U-shaped groove on its under side, wherein is held the mop-rag and a slip of vulcanized india-rubber used for scrubbing.

B is a compressor-rod, used for drawing the mop-cloth and india-rubber slip D into the groove and there holding them by means of the nuts C.

In Fig. 2 may be seen a strip of india-rubber, D, laid on the compressor-rod B, ready for placement in the U-shaped groove in mop-head. By passing the bent ends of this rod up through the holes in the ends of the mop-head and then screwing down the nuts C thereon the rubber is drawn into place in the groove and at once assumes the U shape ready for service. When it is desirable to fasten the mop-cloth E with it, the cloth must be laid on the rubber, and the rubber D, being thus next the rod, will stand out as needed for use when the cloth is held up, as shown in Fig. 1.

The scrubbing is done by the two edges of vulcanized-india-rubber cloth, or packing-rubber, or any similar elastic and firm material, when the same is from one-eighth to one-fourth of an inch in thickness, and the edge or edges presented as shown in Fig. 1.

I lay no claim to discovery in the use of india-rubber cloth for scrubbing purposes as used in this or similar machines, for I am aware that simple scrubbers have been in use for many years where india-rubber has been the material; nor do I claim originality in presenting two or more edges of india-rubber for use at the same time, as shown in this machine; but

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The combination of scrubber D and mop-cloth E in one and the same machine—*i. e.*, the mop-head A with a deep groove in the under side, and compressor rod B, operated by thumb-screws C, firmly clamping and holding in place the mop-cloth E and scrubbing-rubber D, constituting thereby a combined mop and scrubber in one machine.

WM. S. BULLEN.

Witnesses:

L. R. MARTIN,  
R. J. MOULTON.