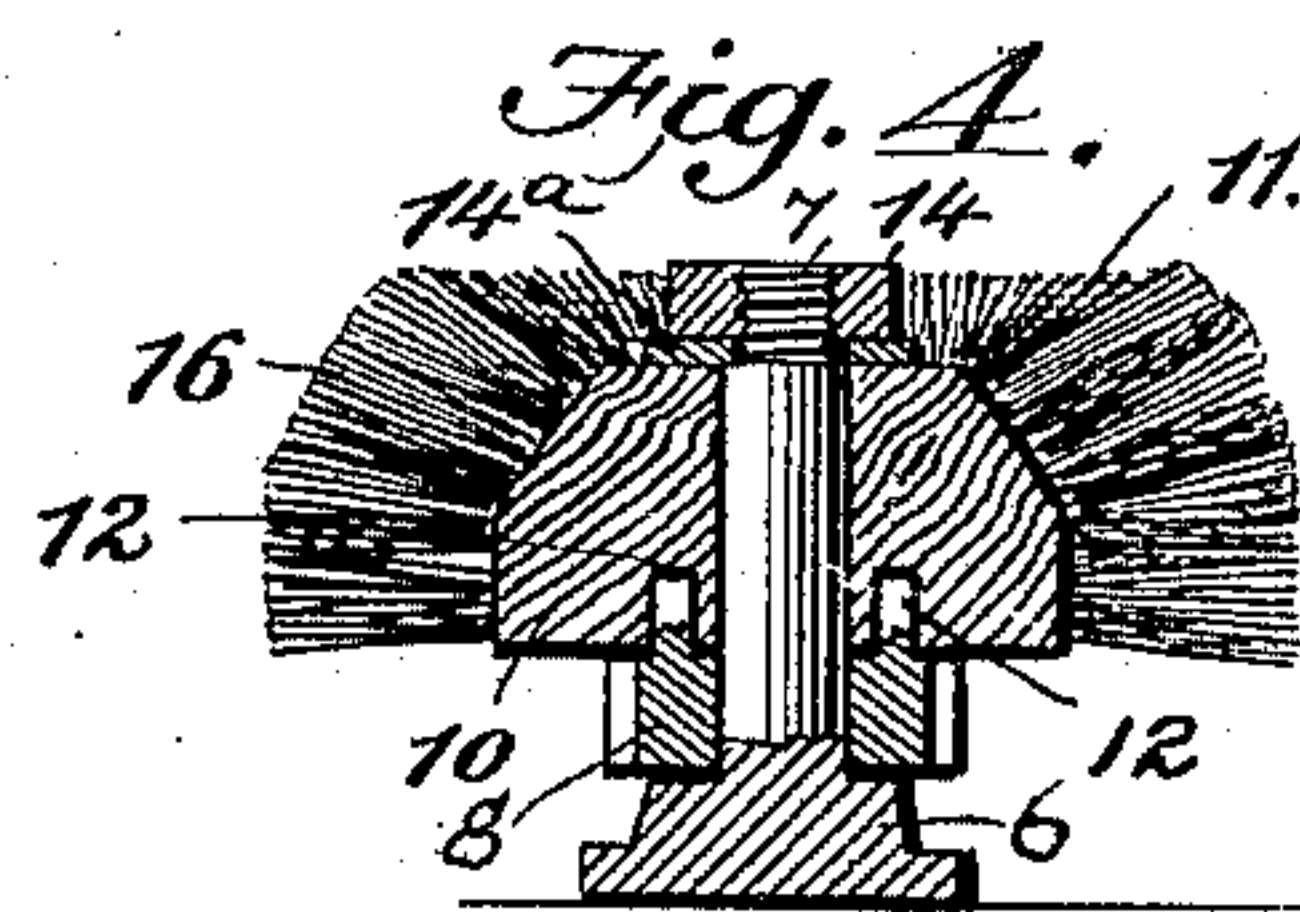
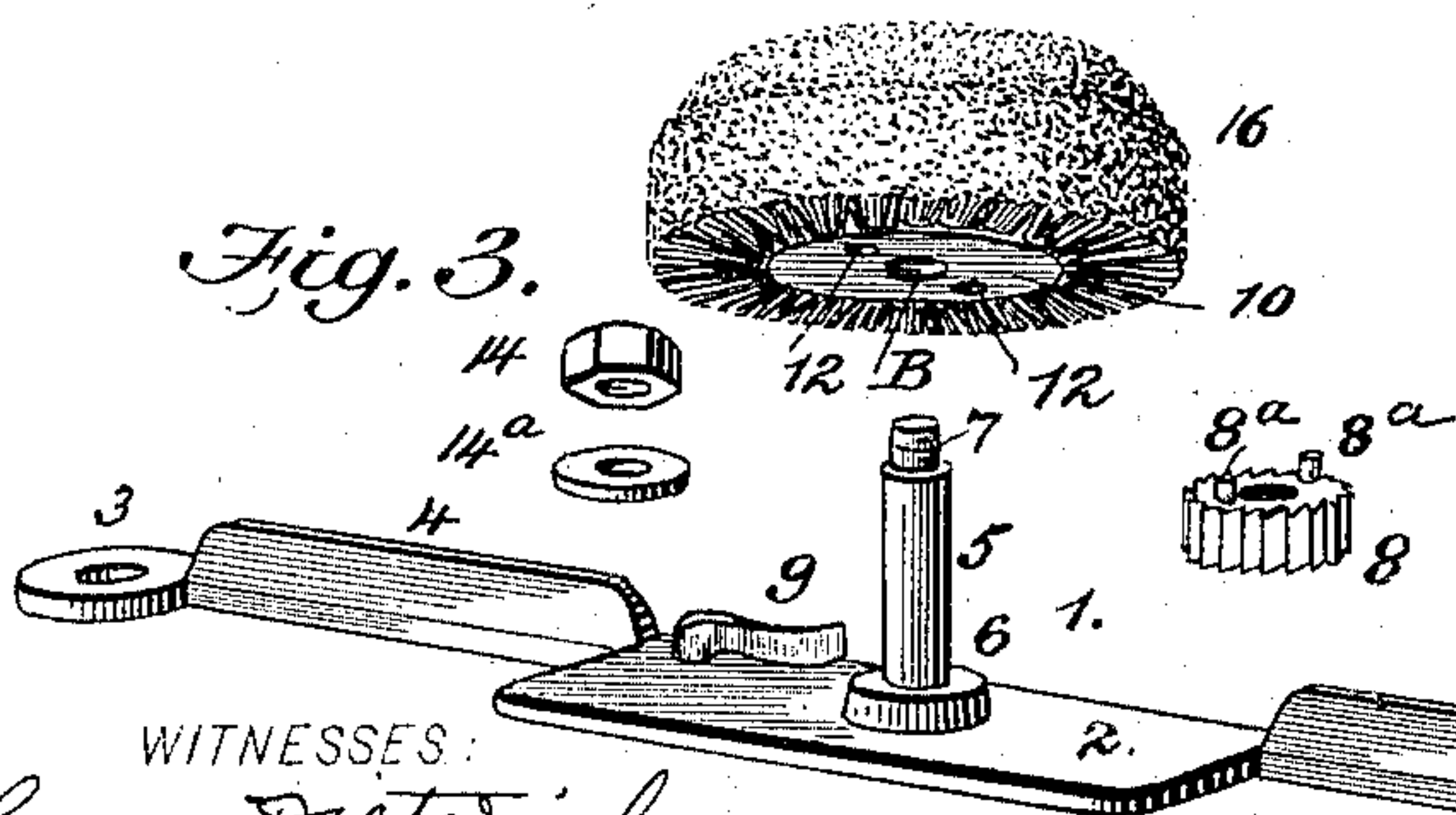
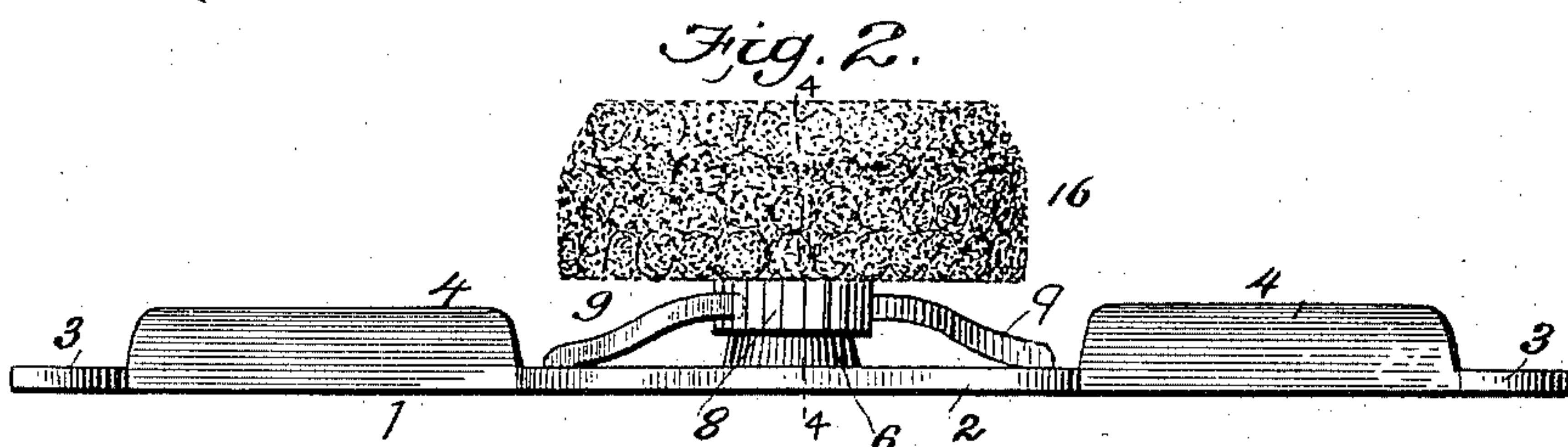
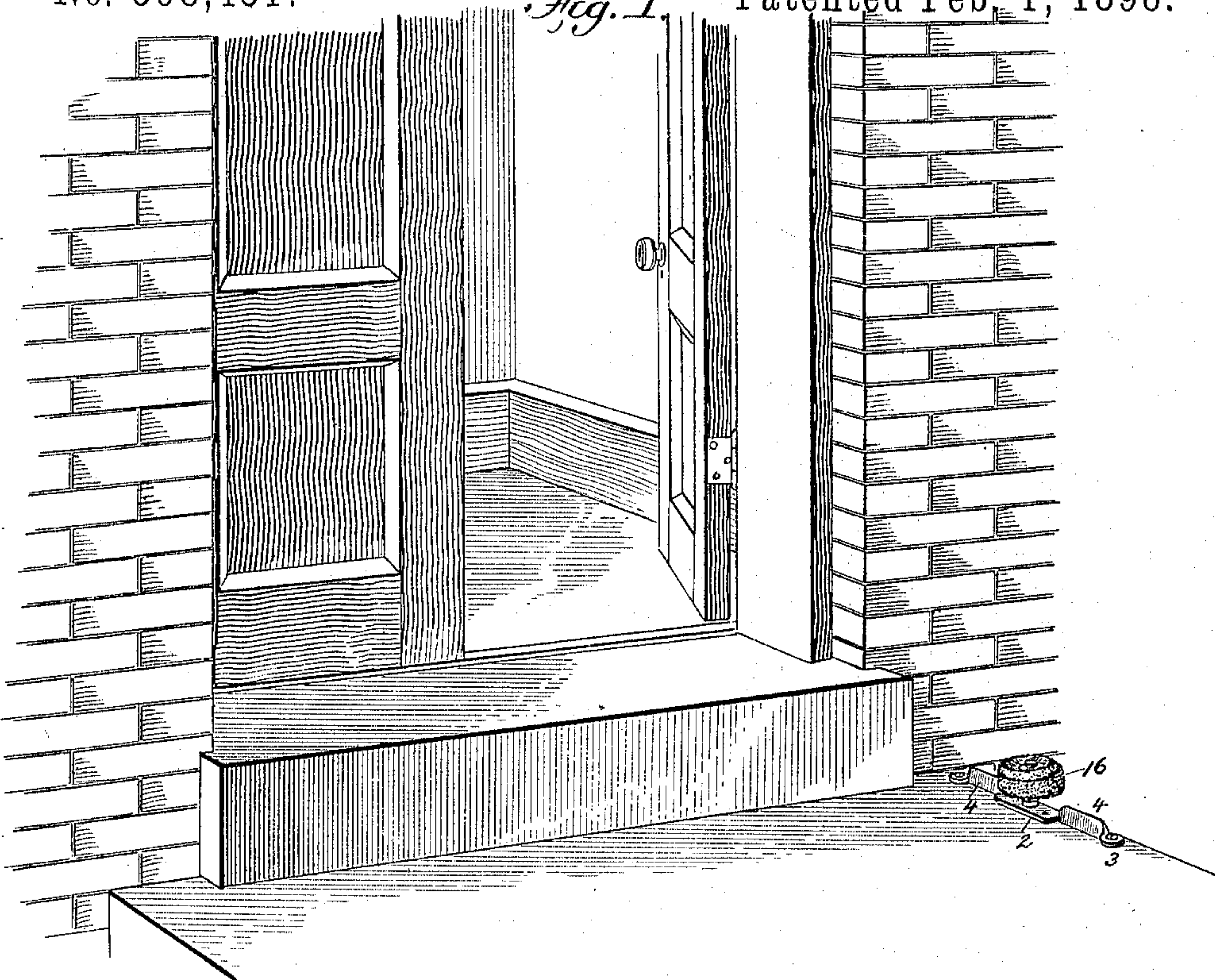


(No Model.)

F. TRUMPLER.
SHOE SCRAPER.

No. 598,451.

Patented Feb. 1, 1898.



WITNESSES:
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UNITED STATES PATENT OFFICE.

FRED TRUMPLER, OF HOOPLE, NORTH DAKOTA.

SHOE-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 598,451, dated February 1, 1898.

Application filed April 17, 1897. Serial No. 632,664. (No model.)

To all whom it may concern:

Be it known that I, FRED TRUMPLER, residing at Hoople, in the county of Walsh and State of North Dakota, have invented a new and Improved Shoe-Scraper, of which the following is a specification.

My invention is in the nature of an improved shoe-scraper adapted to be secured to a door-step or other suitable point; and it has for its object to provide a device of this character of a very simple and inexpensive construction which can be easily set in position for use and which will effectively serve for its intended purposes.

My invention also seeks to provide a scraping device having a rotary brush attachment which will serve to clean the dirt from the sides of the shoe as the bottom of the shoe is cleaned by the scraper members proper.

With other objects in view, which will hereinafter appear, my invention consists in the peculiar combination and novel arrangement of parts, such as will first be described, and then be specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a view illustrating my invention as in use. Fig. 2 is a front elevation of the scraper, showing the same provided with two pawls. Fig. 3 is a detail view of the several parts constituting my improved scraper. Fig. 4 is a cross-section taken practically on the line 4 4 of Fig. 2.

Referring now to the accompanying drawings, in which like letters and numerals indicate like parts in all the figures, 1 indicates a casting having a central flat portion 2, two flat eye portions 3 at the outer end, which are apertured to receive the securing-screws, and vertical members 4 intermediate the parts 2 and 3, which are tapered or shortened at their upper ends to form scrapers. From the center of the plate 2 projects a spindle 5, having a boss 6 at the lower end and a reduced thread at upper end 7.

8 indicates a ratchet-wheel held to turn on the spindle 5, with which engages either a single spring (shown in Fig. 3) or a pair of springs 9, as indicated in Fig. 2, such springs serving as pawls to hold the ratchet-wheel 8 from turning backward.

10 indicates a wooden hub, the upper por-

tion of which is made conical, as shown at 11, while the under face has a pair of sockets 12 to receive the upward-projecting studs 8^a of the ratchet-wheel 8. The hub 10 is also provided with a central aperture B for the passage of the spindle 5. Such hub is of the height that when set in position, as shown in Fig. 4, the threaded end of the spindle will project past the same to receive the securing-nut 14 and washer 14^a, as shown. The wooden hub 10 has secured to it the brushes 16, which are of an equal length, so that the upper edge of the brush will be made inclined or of conical shape, the purposes of which will presently appear.

So far as described it will be observed that as the brush is arranged between the scrapers and in close relation thereto and has a pawl and a ratchet device, as shown, such brush will remain stationary as the user moves either foot backward on the right scraper and forward on the left scraper, while it will rotate as the foot is moved forward on the right scraper and backward on the left scraper, such operation providing for an effective cleaning of the outside of the shoe and also for equalizing the wear of the brush at all points.

From the foregoing description, taken in connection with the accompanying drawings, it is thought the complete operation and advantages of my invention will be readily understood. The several parts are of such nature as to be economically constructed, the brush being attached to the scraper-casting in such a manner that it can be readily removed and replaced by a new brush, if desired.

While I prefer to use a brush constructed of the form shown, I desire it understood that such form may be varied and the manner of connecting the same to the said scraper-plate may also be changed without departing from the principles of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A shoe-scraper consisting of a metal body having a central flat portion and apertured flat ends, and vertical scraper portions intermediate the ends, and the flat portion, the central portion having a spindle, a ratchet-wheel held therein having projections on its

upper face, a rotary brush consisting of a body having brushes arranged to form a conical upper portion, said body having sockets to receive the projections on the ratchet-wheel and a detent for holding the ratchet and brush from revolving one way as specified.

2. A shoe-scraper, comprising a casting having a central vertical projecting spindle, vertical scrapers, arranged one at each side of the spindle, and a ratchet-wheel held on the

spindle, a detent secured to the casting for engaging such wheel and a brush, consisting of a hub member held to rotate on the spindle and having a locked engagement with the ratchet-wheel, all being arranged substantially as shown and described.

FRED TRUMPLER.

Witnesses:

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