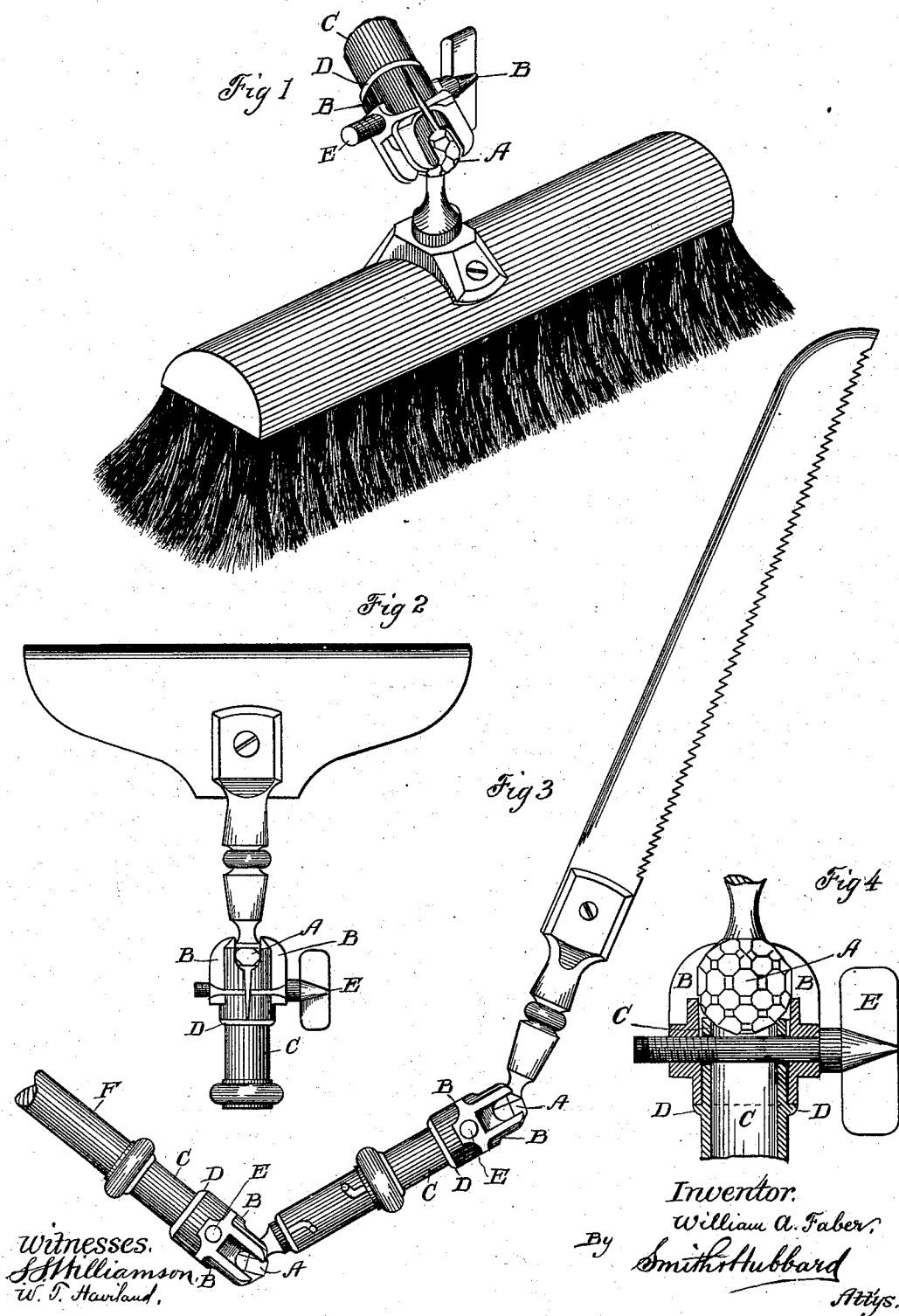


(No Model.)

W. A. FABER.
ADJUSTABLE HANDLE.

No. 384,028.

Patented June 5, 1888.



UNITED STATES PATENT OFFICE.

WILLIAM A. FABER, OF DANBURY, CONNECTICUT.

ADJUSTABLE HANDLE.

SPECIFICATION forming part of Letters Patent No. 384,028, dated June 5, 1888.

Application filed June 18, 1887. Serial No. 241,685. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. FABER, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Adjustable Handles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain improvements in handles, and has for its object to provide means whereby a single handle may be adjustably attached to various devices, such as brushes, mops, window-washers, handsaws, and the like; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully set forth, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may understand its construction and operation, I will proceed to describe the same in detail, referring by letter to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 shows an ordinary floor-brush provided with my improved handle; Fig. 2, a similar view of a window-washer. Fig. 3 shows a saw—such as is used for trimming trees—provided with a double-jointed handle in accordance with my improvement; and Fig. 4, a detail sectional view of my improved handle-joint.

Similar letters denote like parts in all the figures.

A is a ball at the end of the shank, which latter is fastened to the brush, washer, saw, or other utensil. This ball is polygonal, for the purpose presently explained.

B is a split socket, and C a ferrule extending within the same and having shoulders D, against which said sections rest. Both the sections and the ferrule are pierced, and one section is tapped to admit a threaded set-screw, E, which passes through both the ferrule and the sections. The ferrule is secured on the end of any suitable handle, F. In adapting my improvement I spread the sections, so as to ad-

mit the ball, which latter I seat firmly against the annular ring formed by the end of the ferrule. I then adjust the handle to the desired angle and clamp it firmly in this position by means of the set screw. If desired, I can form a double joint by extending the ferrule and securing therein a second shank terminating in a polygonal ball and clamping to the latter a second split socket in the same manner as above described, and as shown at Fig. 3.

I am of course aware that ball-and-socket joints are old, and that adjustable handles wherein a serrated ball is clamped by a socket are not new; but my invention contemplates the obviation of a great difficulty heretofore existing in the securing of handles adjustably by means of a ball-and-socket joint, and this difficulty is that no matter how much the ball is serrated it cannot be tightly clamped by the socket so as to prevent displacement, whereas in my improvement the polygonal faces of the ball are firmly clamped against the annular seat afforded by the ferrule, so that any turning of the handle is impossible. It has been frequently essayed to attach a handle to a handsaw by means of a ball-and-socket joint; but the difficulty has been that in order to rigidly clamp the saw a rectangular head had to be used, thereby sacrificing the adjustability.

With my improvement the adjustment is universal, while at the same time the saw or other device is rigidly held at any desired angle.

Having thus described my invention, I claim—

In an adjustable handle, the combination, with a polygonal-faced ball secured to a brush or other utensil, of a split socket adapted to embrace the ball, a ferrule extending within the socket and affording an annular seat for the ball, and a set-screw extending through the ferrule and the socket and adapted to clamp the latter firmly against the ball, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM A. FABER.

Witnesses:

EDWIN J. CANFIELD,
CHRISTIAN QUIEN.