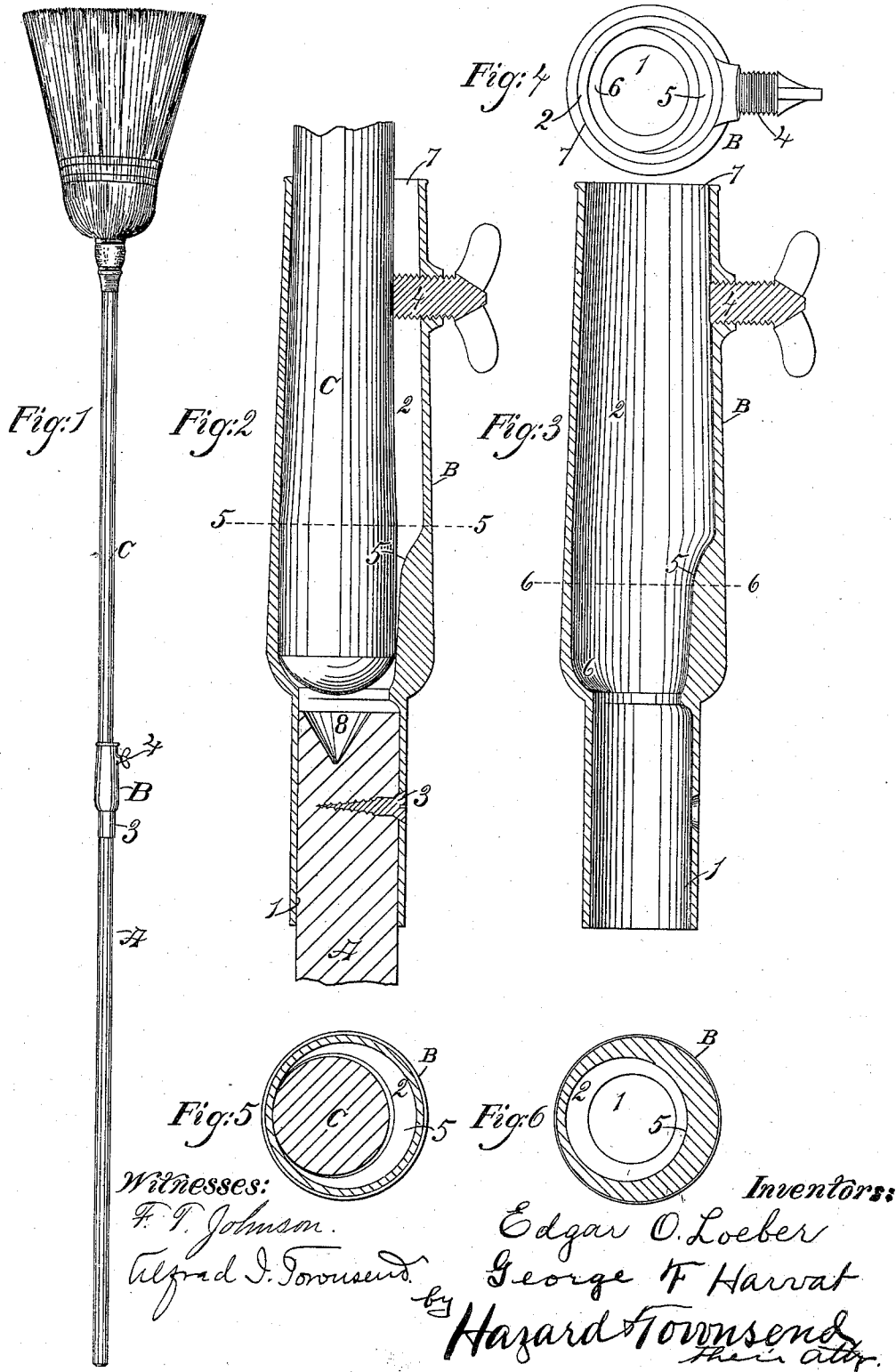


(No Model.)

E. O. LOEBER & G. F. HARVAT.
EXTENSION HANDLE FOR BROOMS OR DUSTERS.

No. 579,519.

Patented Mar. 23, 1897.



UNITED STATES PATENT OFFICE.

EDGAR O. LOEBER AND GEORGE F. HARVAT, OF LOS ANGELES, CALIFORNIA.

EXTENSION-HANDLE FOR BROOMS OR DUSTERS.

SPECIFICATION forming part of Letters Patent No. 579,519, dated March 23, 1897.

Application filed June 12, 1896. Serial No. 595,320. (No model.)

To all whom it may concern:

Be it known that we, EDGAR O. LOEBER and GEORGE F. HARVAT, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Extension-Handle for Brooms or Dusters, of which the following is a specification.

The object of our invention is to provide for housekeepers an appliance for adapting the ordinary sweeping-broom for use for wiping cobwebs and dust from walls and ceilings. This is accomplished by means of the device described herein and illustrated in the accompanying drawings.

Figure 1 is a view of our invention applied as an extension for a broom-handle, thus making a long-handled broom out of the ordinary sweeping-broom. Fig. 2 is a longitudinal section of the socket-piece with fragments of the stick and the broom-handle in place, the stick being shown in section, but the broom-handle is not sectioned. Fig. 3 is a longitudinal section of the socket-piece separate from stick and handle. Fig. 4 is a plan of the socket-piece ready for the insertion of stick and handle. Fig. 5 is a section on line 5 5, Fig. 2. Fig. 6 is a section on line 6 6, Fig. 3.

Our invention comprises an extension-handle for brooms, dusters, and other light implements, comprising a stick A, a socket on the end of the stick, and means for detachably fastening the end of the handle, such as a broom-handle, duster-handle, or the handle of any other implement, in the socket.

B indicates a socket-piece, preferably made of cast metal, having in one end a socket 1 for a stick, such as the stick A, and in the other end a socket 2 for the end of the broom-handle or the handle of some other implement. The stick A is inserted in the socket 1 and is preferably secured therein by a screw 3, inserted through a hole in the wall of the socket 1 and screwed into the stick A.

4 indicates a clamping device extending into the socket to clamp the broom-handle. The clamping device shown comprises a set-screw screwed through the wall of the socket 2 to afford means for detachably fastening the end of a handle, such as the handle of a broom, a duster, or a tack-hammer, in the

broom-handle socket 2. The set-screw 4 is screwed into the socket through one side of the wall of the socket, there being about an inch, more or less, from center of screw to the mouth of the socket, the inner face of the wall of the socket at the bottom of the socket below the screw being sloped toward the axis of the socket, as indicated at 5, Figs. 2 and 3, and the opposite inner wall being inwardly inclined toward the axis of the socket and from the bottom to the mouth of the socket. This inwardly swelling portion 5 of the wall of the socket is arranged sloping downward and inward in reverse curves below the screw and extends partially around the socket, so that on the side of the wall opposite the screw the inner wall of the socket slopes from the bottom 6 of the socket inward and upward to the mouth 7 of the socket, and the inward swell or thickened portion of the wall of the socket extends toward it, so that when the end of a handle is inserted into the socket 2 it will engage the inward swell 5 and will come to rest at some point below the upper end of such swell, and then when the screw 4 is screwed into place the opposite wall of the socket 2 will hold the handle while the screw 4 clamps it firmly in place, the effect being to bring the broom-handle C into true position with relation to the stick A, (the axis of the broom-handle C being practically in line with the axis of the stick A,) and although the axes of the handle and stick do not exactly line with each other the complete handle formed by the broom-handle C and the stick A and socket-piece B is practically straight.

In practice the socket B is permanently fastened on the socket A and sold to the trade with the set-screw in place. To use the appliance, the housekeeper or other operator will insert the handle of the broom, duster, tack-hammer (or other implement the handle of which it is desired to extend) in the socket 2, and when the handle comes to a firm seat at the lower part of the socket against the swell 5 and the opposite wall of the socket then the set-screw 4 is screwed into place and the implement is ready for use.

In Fig. 2 a tapering socket 8 is shown in the end of the stick to seat the pointed end of an ordinary duster-handle.

Now, having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In an extension-handle for brooms and
5 dusters a socket-piece adapted to be fastened to the end of a stick and provided in one end with a socket, and a clamping device extending into the socket through one side of the wall of the socket; the inner face of the wall
10 of the socket at the bottom of the socket below the screw being sloped toward the axis of the socket, and the opposite inner wall being inwardly inclined toward the axis of the socket and from the bottom to the mouth of
15 the socket.

2. The socket-piece provided with a socket for the end of the handle of a broom or duster, and a clamping device in one side of the socket, the wall of the socket near the bottom of the socket sloping downward and inward 20 in reverse curves below the screw and partially around the socket, and above such curves tapering to the mouth of the socket substantially as set forth.

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Witnesses:

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