

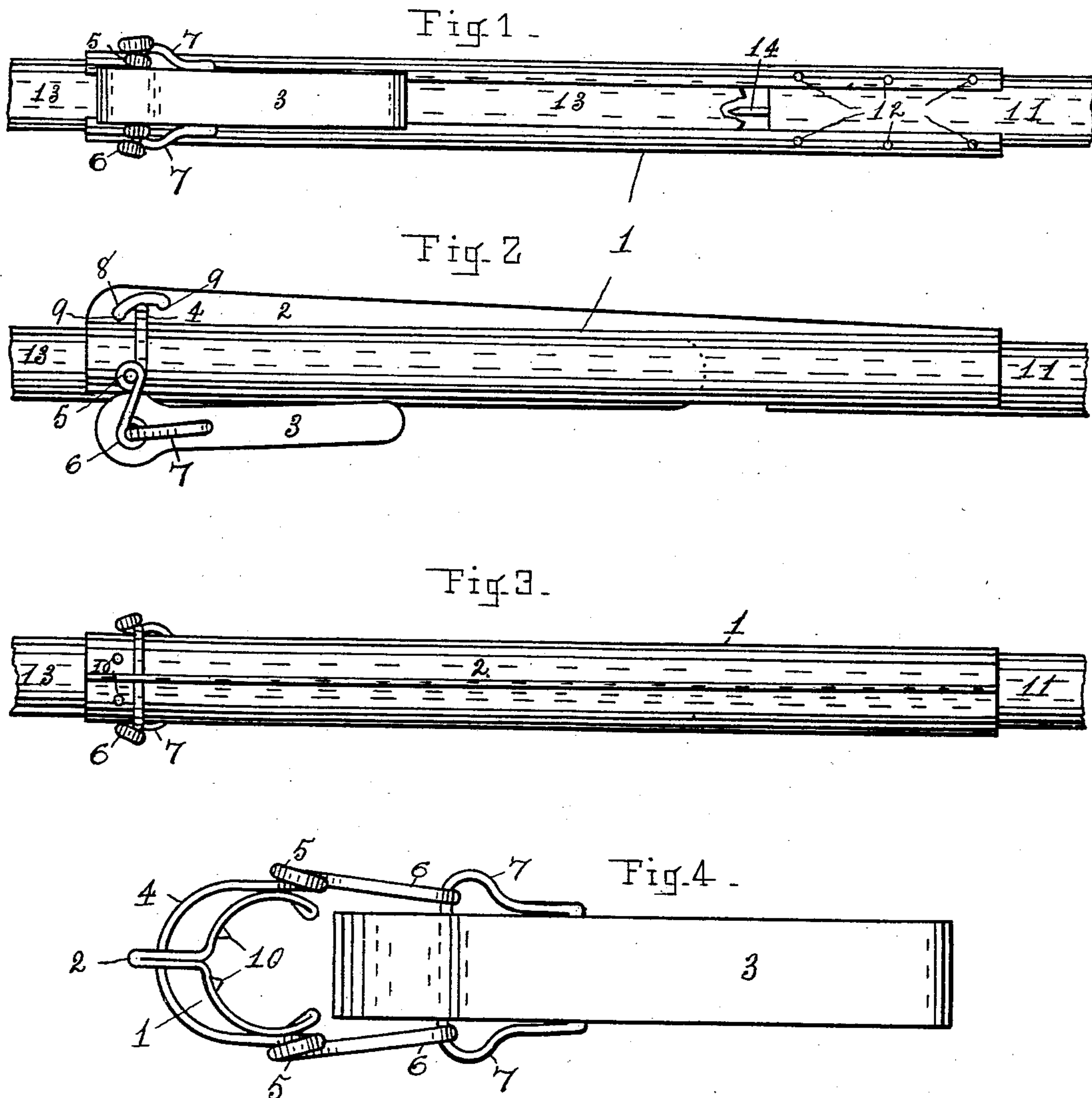
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Patented July 2, 1901.

J. A. PULGER.
BROOM HANDLE EXTENSION COUPLING.

(Application filed Mar. 6, 1901.)

(No Model.)



Witnesses.
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JACOB A. PULGER, OF MENASHA, WISCONSIN.

BROOM-HANDLE EXTENSION-COUPLING.

SPECIFICATION forming part of Letters Patent No. 677,372, dated July 2, 1901.

Application filed March 6, 1901. Serial No. 50,129. (No model.)

To all whom it may concern:

Be it known that I, JACOB A. PULGER, a citizen of the United States, residing at Menasha, in the county of Winnebago and State of Wisconsin, have invented a new and useful Improvement in Broom or Similar Handle Extension-Couplings, of which the following is a specification.

My invention relates to a coupling to be permanently secured at one end to one end of a rod or pole and at its other end adapted to be detachably secured to the end of a broom, brush, or other like handle for the purpose of making said broom, brush, &c., available for reaching higher points in a building than it would with the usual short handle, and thereby save the expense of a special long-handled tool, which besides their much higher cost than the usual household brooms and brushes are inconvenient to store away when not in use by reason of their great length. This purpose is accomplished by means of the coupling, as will be hereinafter described, reference being had to the accompanying drawings, in which—

Figure 1 is a front view of the coupling with a short section of a rod or pole permanently secured to the right-hand end of it and a short section of a broom or brush handle detachably held in its left-hand end. Fig. 2 is a side view of the same parts. Fig. 3 is a back view of the same parts as in Figs. 1 and 2, and Fig. 4 is an end view or plan of the left-hand end of the coupling upon a larger scale than the other figures with its clamping eccentric lever at its right thrown out of engagement.

Similar numerals indicate like parts in the several views.

1 indicates the coupling-piece, which is of a trough-like shape and is made of sheet metal, bent as shown in Fig. 4; 2, a rib integral with the coupling-piece extending the entire length along the back side for stiffening the coupling; 3, an eccentric lever linked to the coupling-piece and preferably made of wood. A spring-link member by which the eccentric lever and coupling-piece are connected consists of a single piece of wire bent into a loop 4, the two spring-coils 5, and two eyes 6.

7 indicates ears or staples by which the

spring-link member is connected to the eccentric lever; 8, a slot in the rib 2, in which are a plurality of notches 9, in one of which the spring-link loop 4 is to be placed, according to the diameter of the broom or other handle to which it is to be applied, the notches being at different distances from the back of the coupling or bottom of the trough for the purpose of adapting the coupling to handles of different diameters.

10 represents two spurs near the upper end and which project inside the trough, they being easily made with a round-pointed punch driven through the sheet metal from the outside.

11 is the rod or pole of a suitable diameter and length for its designed use, to which the coupling-piece is secured in a suitable manner, as by means of nails 12.

13 is the broom or other handle, which is to be lengthened by attaching the coupling and rod 11 to it.

14 is a pin which is inserted in the upper end of the rod 11 and is provided with a sharp point for entering the end of the broom or brush handle for holding said handle firmly at its end, the clamp 3 clamping it upon the spurs 10 and holding it from movement in a circular or longitudinal direction.

The coupling is formed from a rectangular-shaped piece of sheet metal bent into a trough shape, one side of the trough being bent outward radially and returned upon itself to the aforesaid radial bend, forming thereby the rib 2, when the remaining side or half of the trough is formed. The longitudinal edges of the trough can be bent inward, as shown, for producing a hem or binding along the edges.

The slot 8 is to be of sufficient width for permitting the insertion of the spring-link member after its coils 5 and eyes 6 have been formed.

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

1. In a broom or similar handle extension-coupling formed of sheet metal into a trough-like shape and being provided with a stiffening-rib integral with it and extending along the back of said trough, a slot in said rib having a plurality of notches arranged therein at different distances from the bottom of said

- trough, and an integral wire-link member provided with a loop for engaging either one of said notches and thereby adapting said coupling to broom, or similar handles of different diameters, said link member being provided with eyes at the ends of the wire to which a clamping-lever is linked for clamping a broom, or other handle within said coupling, substantially as set forth.
2. In a broom or similar handle extension-coupling formed of sheet metal into a trough-like form and having an eccentric lever linked thereto for clamping a handle therein, a spring-link member therefor consisting of a single piece of wire bent into loop for inclosing the trough of said coupling, an eye at each end of the wire for the connection therewith of the aforesaid eccentric lever, and intermediate said loop and eyes the coil-springs 5, 5, for adapting said lever for engaging and holding securely handles of different diameters, substantially as described.
3. In a broom or similar handle extension-coupling formed of a trough-like shape and having an eccentric lever linked thereto for clamping a handle therein, one or more spurs extending inward in the bottom of said trough for engaging the handle as the eccentric of said lever forces said handle against the bottom of the trough and thereby hold said handle from circular or longitudinal movement therein, substantially as set forth.
4. In a broom or similar handle extension-coupling formed of a trough-like shape, one end of which is permanently secured to a suitable rod or pole and the other end is provided with means for clamping a broom or similar handle therein, a pointed pin secured in the upper end of the aforesaid rod or pole for entering the lower end of a broom or similar handle as it is inserted in said coupling for holding said end of the broom or similar handle securely therein, substantially as described.

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Witnesses:

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