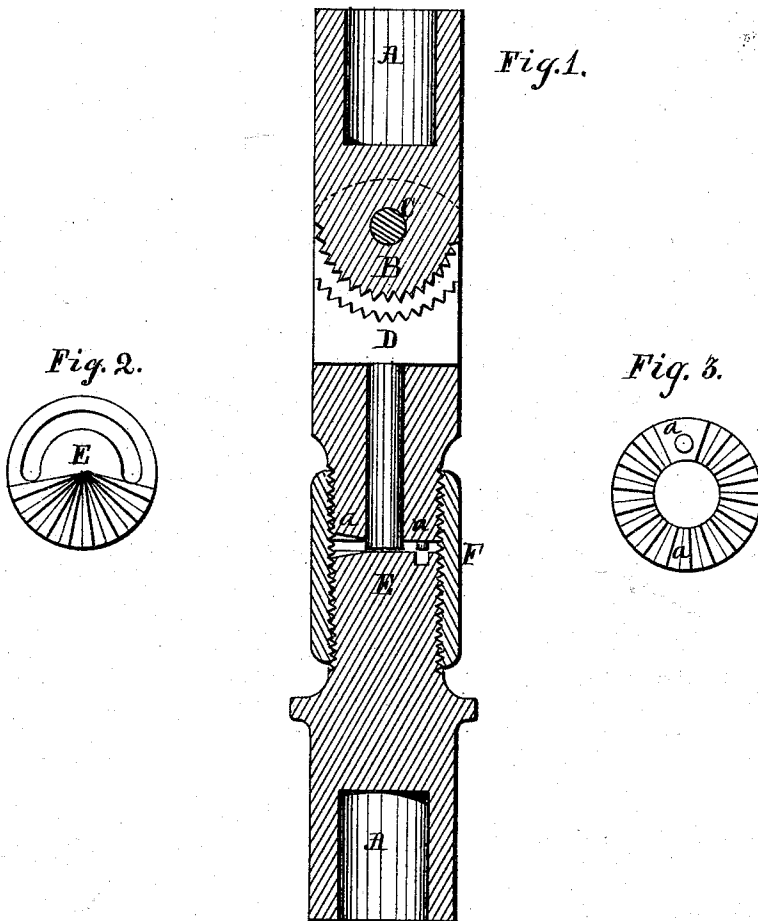


G. H. BRIGGS & J. T. CLARKSON.

JOINTS FOR UMBRELLA-STICKS.

No. 172,297.

Patented Jan. 18, 1876.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE H. BRIGGS, AND JOSEPH T. CLARKSON, OF AMESBURY, MASS.

IMPROVEMENT IN JOINTS FOR UMBRELLA-STICKS.

Specification forming part of Letters Patent No. **172,297**, dated January 18, 1876; application filed September 27, 1875.

To all whom it may concern:

Be it known that we, GEORGE H. BRIGGS and JOSEPH T. CLARKSON, both of Amesbury, in the county of Essex and State of Massachusetts, have invented certain Improvements in Umbrellas for Vehicles, and for other uses, of which the following is a specification:

The object of our invention is to admit of the umbrella being automatically held at any desired angle.

The first part of our invention consists in the application of an adjustable metallic joint to the handle or stick of the umbrella.

The second part of our invention relates to the combination of the serrated end of joint, serrated end of piston, and a sleeve or jacket, having upon its inner circumference a right and left thread, by means of which the mechanism is held in the position desired; also, to the combination of a pin and slotted groove, by which more than half a turn of the stick is prevented.

In the accompanying drawings similar letters refer to similar parts.

Figure 1 is a sectional view of our invention.

A A are the sockets, into which enter the stick or handle of the umbrella. B is the serrated lower end of the upper socket A; C, the pin upon which the joint turns; D, the piston, with upper end serrated, working through the cylinder *a a*, holding the joint firmly in place when pressed against the end B; E, the upper end of the lower socket A, holding the piston D in place by means of pressure applied

by the sleeve or jacket F, having upon its inner circumference a right and left thread, thus bringing the ends *a a* and E together, and forcing the piston D against the end B. The serrated rims on the cylinder *a a* and end E prevent the stick from turning when in position.

Figs. 2 and 3 show a slotted groove and pin, which fits into the same, being the ends of E and *a a*, and are to prevent the turning of the stick beyond the length of the slot.

We claim as our improvement in joints of umbrella-sticks—

1. The combination of the serrated end of socket B with the serrated end of the piston D, substantially as and for the purpose hereinbefore set forth.

2. In combination with the socket A and piston D, the serrated ends E and *a a*, substantially as described.

3. The sleeve or jacket F, in combination with the socket ends B and E and piston D, substantially as and for the purpose hereinbefore set forth.

4. The slotted groove and pin, as described, and shown in Figs. 2 and 3, in combination with the ends E and *a a* and sleeve F, substantially as specified.

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