

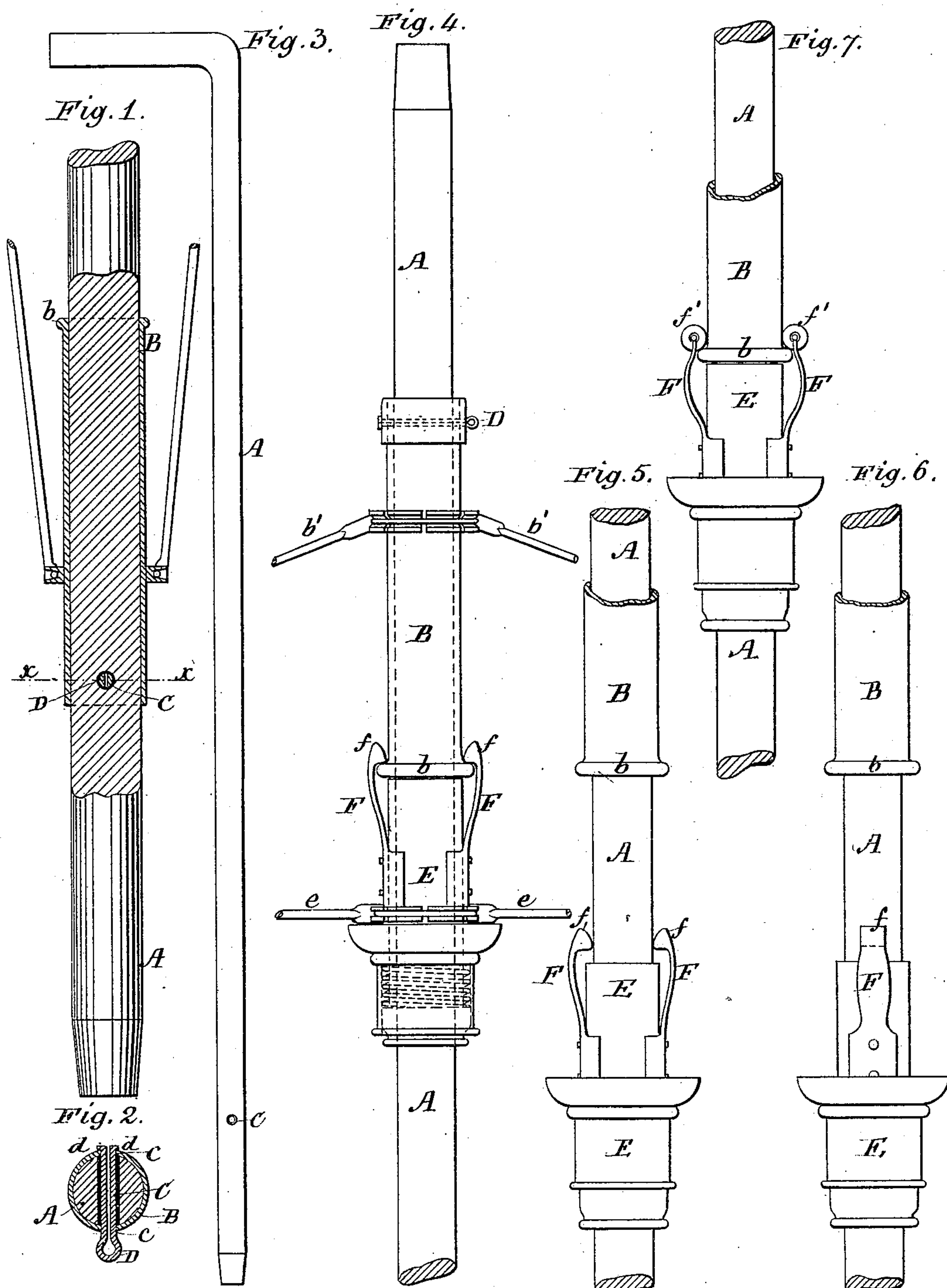
(No Model.)

P. A. MEURGEY.

Umbrella.

No. 238,416.

Patented March 1, 1881.



Witnesses

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UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 238,416, dated March 1, 1881.

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To all whom it may concern:

Be it known that I, PIERRE ADOLPHE MEURGEY, of Paris, in the Republic of France, have invented certain new and useful Improvements in Umbrellas, of which improvements the following specification is a full description.

The present invention has reference to umbrellas in which the stick or handle is detachable from the other parts, so that it can be used as a cane, if desired. Umbrellas of this description heretofore made have been of complicated construction, and the parts are, moreover, very liable to get out of order. This is particularly the case where a certain play is allowed between the parts, as great wear is occasioned by the striking of the umbrella against the ground, which is habitually done in walking. Moreover, in some cases the strength of the stick is materially lessened by the alteration required in it to adapt it to the desired purpose. In the present invention the construction is very simple and the detachment of the parts easily effected, while the strength and solidity of the stick are not impaired, and the whole article is but little liable to injury or wear by use.

The invention consists in connecting the handle and the frame or stick through the medium of a hollow sleeve, with which the ribs of the umbrella are connected at the upper end, and in securing this sleeve, after it is slipped over the handle or stick, by means of a split pin or key which passes through a hole in the sleeve and a corresponding hole in the handle.

The invention further consists in the catch for retaining the umbrella in position when opened, and also in the particular construction and combination of parts, as hereinafter more fully set forth.

In order that the invention and the manner of carrying it into effect may be well understood, the same will now be described in connection with the accompanying drawings, which form a part of this specification, and in which the same letters indicate like parts wherever they occur on all the figures.

Figure 1 is an elevation, partly in section, showing the top portion of an umbrella em-

bodying the invention, the umbrella being inverted in the figure; Fig. 2, a transverse section on line *xx*, Fig. 1; Fig. 3, a view of the stick or handle detached; Fig. 4, a view of the principal parts of the umbrella in the position they would assume when the umbrella is opened; Figs. 5 and 6, views, in elevation, from different sides, showing the slide and spring-catch partly lowered, and Fig. 7, a view of another form of catch.

The sleeve B fits loosely over the handle A, and is secured thereto by the split pin or key D, which passes through corresponding holes C in the sleeve and stick. This pin or key is prevented from slipping out of place by the projections *d* on the extremities of the two branches of the key, which, when the key is inserted, spring over the outside of the sleeve. The ribs *b'* are connected in any ordinary or suitable way with the sleeve B. To remove the sleeve at any time from the handle, the ends of key D, having the projections *d*, are pressed together, when the pin or key can be readily slipped out of place and the sleeve detached from the handle.

The slide E is in the form of a sleeve and fits loosely over the stick or handle A, and with it the supporting ribs or stretchers *e* are connected at their inner ends in any ordinary or suitable way, the outer ends being connected with the ribs *b'* in the usual manner.

To the slide E are connected the spring arms or catches F, diametrically opposite to each other. At the upper or free ends of these arms are projections *f*, with sides inclined, as shown. At the lower edge of the sleeve B is a bead or ring *b*, and when the umbrella is opened by raising the slide E the projections *f* are pressed back by this bead or ring and slip over it, so as to keep the umbrella extended by engagement therewith as long as desired. The under surface of the projections *f* on the ends of the spring-arms being beveled, by pulling the slide E firmly downward the catches will slip over the bead *b* and the umbrella can be closed. It will thus be seen that a sufficient pressure in either direction upon the slide E will secure the engagement or disengagement of the catches and bead, as may be desired.

The umbrella is prevented from opening farther than is desirable by the contact of the slide E with the sleeve B.

In order that no injury to the surface of the stick or handle may be caused by the rubbing contact of the spring-catches, the ends of the projections *f* are made round and smooth.

If preferred, the spring-arms F, instead of being formed with projections at their extremities, may be provided with rollers *f'*, as shown in Fig. 7. The contact of these rollers with the stick or handle A, as the slide E is raised or lowered, would be less liable than the sliding contact, even of a rounded surface, to scratch the surface of the handle, or in any wise render it unsightly for use as a cane when detached from the frame.

The position of the key D with reference to the sleeve is not material. The opening for its passage could be made at other suitable points on the sleeve.

The invention is not limited to any particular materials; but the sleeve would ordinarily be of metal, and the handle or stick of wood.

Having now fully described the said invention and the manner of carrying the same into effect, what I claim is—

1. In an umbrella in which the frame or mounting is detachable from the handle or stick, the combination of the sleeve, the umbrella-ribs connected directly therewith, and means for securing said sleeve to the handle or stick, substantially as described.

2. The combination of the handle, sleeve having the umbrella-ribs connected directly therewith, and split pin or key, substantially as described.

3. In combination with a sleeve having the ribs of an umbrella connected therewith, and provided with a bead or projection, a slide, with which the stretchers are connected, carrying one or more spring arms or catches adapted to engage with said bead or projection, substantially as described.

4. In an umbrella, the spring-arms secured to the slide and provided on the ends with projections of the form shown, so that pressure on said slide either up or down will cause their engagement with or disengagement from a suitable bead or ring, substantially as described.

5. The combination, with a handle or stick, of a sleeve detachably secured by a split key to said handle and connected with the ribs, an annular projection or bead on said sleeve, and a slide connected with the stretchers and provided with spring-catches adapted to engage with the bead on said sleeve, substantially as described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

P. A. MEURGEY.

Witnesses:

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AUG. VINCK.