

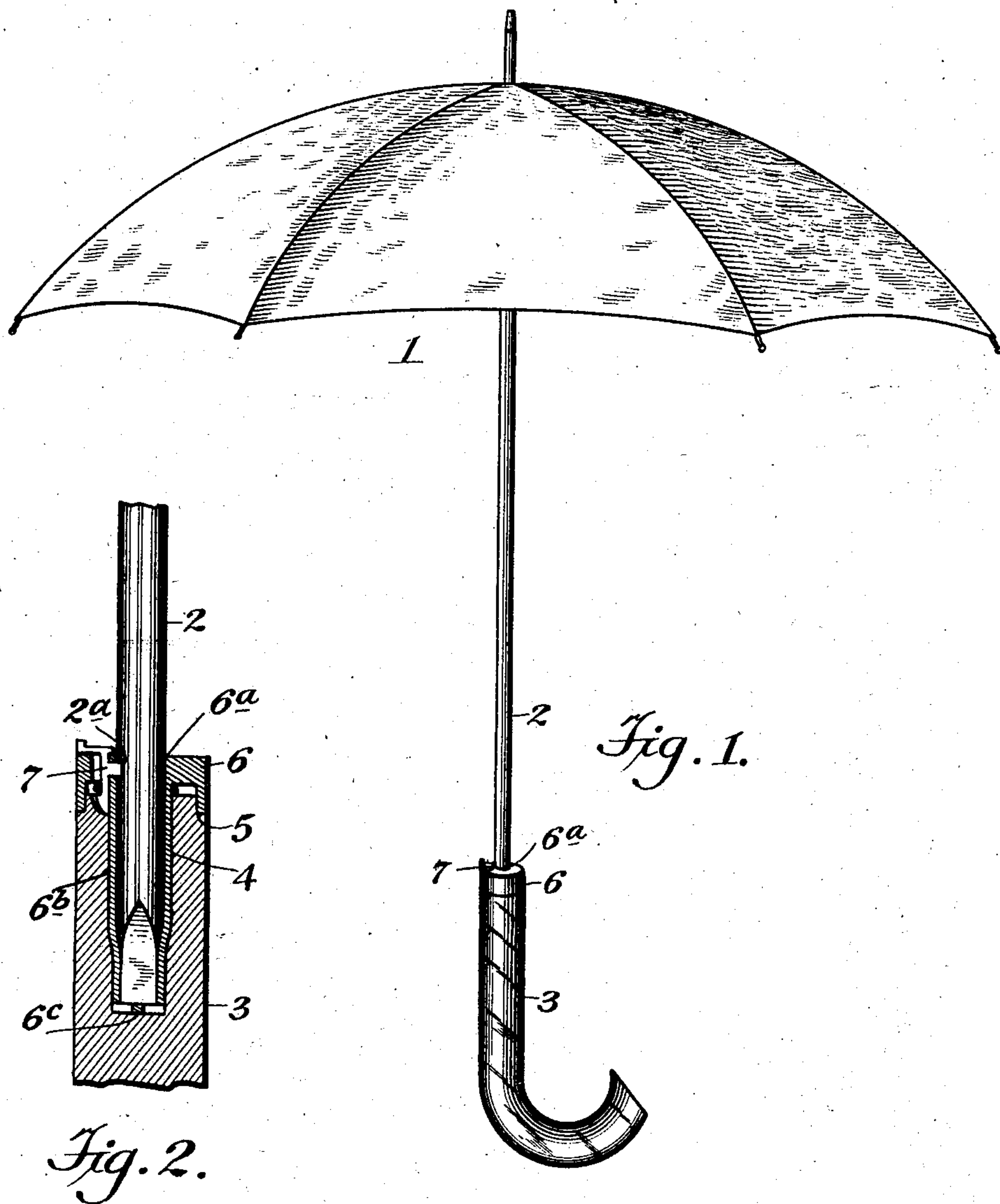
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F. M. SEARS.
ADJUSTABLE HANDLE FOR UMBRELLAS.

APPLICATION FILED JUNE 19, 1902.

NO MODEL.



WITNESSES:

A. R. Appleman
Hartwell P. Heath

INVENTOR

Franklin M. Sears
BY *J. P. Little*
his ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANKLIN MUMFORD SEARS, OF CHARLEVOIX, MICHIGAN.

ADJUSTABLE HANDLE FOR UMBRELLAS.

SPECIFICATION forming part of Letters Patent No. 721,331, dated February 24, 1903.

Application filed June 19, 1902. Serial No. 112,263. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN MUMFORD SEARS, a citizen of the United States, residing at Charlevoix, in the county of Charlevoix and State of Michigan, have invented certain new and useful Improvements in Adjustable Handles for Umbrellas, of which the following is a specification.

This invention relates to detachable or interchangeable handles for umbrellas, and has for its object to provide a device of the class described which will possess points of advantage in convenience, simplicity, inexpensiveness, effectiveness, and general efficiency. Premising that the general object of the invention is to enable any particular handle to be retained and used with different umbrellas, being readily detached from one and fitted to another at will, the more definite advantages derived from the use of my improved construction and arrangement of parts are that the durability of the handle is enhanced by providing safeguards against splitting or breaking, that there is a readiness of application of the handle to umbrella-rods of any ordinary kind, as well as to the rod specially designed for combination therewith, by reason of the fewness and simplicity of parts employed, that there is insured absolute certainty and ease in bringing the umbrella and its handle together, and that all ordinary tendency of the device to get out of order is obviated.

In the drawings, Figure 1 indicates a perspective view of an umbrella embodying my improvements open. Fig. 2 is an enlarged detail vertical sectional view of the junction of the umbrella-stick and the handle with parts broken away.

Corresponding parts in both figures are denoted by the same reference characters.

Referring to the drawings, 1 designates an umbrella of the ordinary form provided with a steel rod 2, forming the stick thereof. My invention consists in providing the handle 3 at its upper end with means of detachably securing such handle 3 upon the lower end of the steel rod 2.

In the preferred form the handle 3 has a recess 4 formed in its upper end, and the upper end is preferably reduced in size to form a shoulder 5. A cap 6, preferably of metal, fits

over the upper end of the handle 3 and abuts against the shoulder 5. The cap 6 has a central opening 6^a in its top, complementary to the lower end of the steel rod 2, and is provided with an interiorly-depending hollow sleeve 6^b in alinement with the opening 6^a, which sleeve 6^b projects into the recess 4, formed in the upper part of the handle 3. Preferably the lower part of the sleeve 6^b is squared to prevent the steel rod 2 from turning when it is placed in said sleeve 6^b at or near its lower end, which will insure the tube against spreading and also prevent the rod from being forced too far into the socket and any consequent liability of the handle to split, and provided with a stop or cross-tie 6^c, extending across the sleeve 6^b. A spring-catch 7 is secured at one side of the sleeve 6^b and normally projects into the hollow interior of said sleeve 6^b. The spring-catch is provided above the cap 6 with means for withdrawing it from the inside of the sleeve 6^b. The steel rod 2 has its lower end squared, complementary to the interior of the lower part of the sleeve 6^b, and is provided at a suitable distance from the bottom with a notch 2^a, adapted when the lower end of the steel rod 2 is inserted into the opening 6^a and sleeve 6^b to receive the spring-catch 7.

In assembling the parts the cap 6 is first placed over the upper end of the handle 3, with the sleeve 6^b projecting into the recess 4 and secured thereon by any suitable means. The lower end of the steel rod 2 is now inserted into the opening 6^a and slid down into the sleeve 6^b until the spring-catch 7 engages the notch 2^a. The umbrella is now complete, with its handle, and in readiness for use. When it is desired to remove the handle 3, the spring-catch 7 is drawn back and the steel rod 2 withdrawn from the sleeve 6^b and the opening 6^a.

When the stick or rod of the umbrella has not been made expressly for my detachable handle, the notch 2^a can readily be made in it by the user with a knife or file.

The operation and advantages of my invention will be readily understood and appreciated. The handle 3 may be of any desired form and material—such as china, silver, or other ornamental material—and of fanciful shape. Such a handle may be attached by

means of my invention to the stick or rod of any umbrella, and consequently may be used indefinitely. When the handle 3 has been secured on the end of the steel rod 2, as here-
5 inbefore described, the umbrella will appear the same as any ordinary umbrella and may be carried and used in the same manner.

I do not desire to be understood as limiting myself to the details of construction and ar-
10 rangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement in the adapta-
15 tion of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore reserve the right to all such varia-
20 tion and modification as properly fall within the scope of my invention and the terms of the following claims.

Having thus described my invention, I claim and desire to secure by Letters Pat-
ent—

1. A device of the class described, compris-
25 ing a handle having a central vertical recess, a cap embracing the end of said handle and having a central aperture and a depending hollow sleeve fitting within said recess and so configured as not to turn therein, and a
30 spring-catch secured to said sleeve and projecting normally into the interior thereof, in combination with an umbrella-stick conform-
ing at its end to the internal configuration of

the sleeve, and having a notch with which the spring-catch engages when the stick is
35 pushed into the sleeve, substantially as set forth.

2. A device of the class described, compris-
ing a handle having its upper end reduced to form an annular shoulder and provided with
40 a recess in its upper end, a cap secured on said handle and abutting against said shoulder and provided with a central opening and a depending hollow sleeve squared at its lower
45 end to receive the end of an umbrella-stick complementarily squared, and means for re-
taining said stick in said handle.

3. A device of the class described, compris-
ing a handle having its upper end reduced to form an annular shoulder and provided with
50 a recess in its upper end, a cap secured on said handle and abutting against said shoulder and provided with a central opening and a depending hollow sleeve squared at its lower
55 end to receive the end of an umbrella-stick complementarily squared, and a spring-catch normally projecting into the interior of said sleeve and adapted to engage said stick when
in operative position.

In testimony whereof I have signed my
60 name in the presence of the subscribing wit-
nesses.

FRANKLIN MUMFORD SEARS.

Witnesses:

W. D. JACOBS,
M. V. COOK.