

PATENT SPECIFICATION

1,194,170

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DRAWINGS ATTACHED.

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International Classification:—A 45 b 25/10.

COMPLETE SPECIFICATION.

Improvements relating to Umbrellas.

We, BREMSHEY AND CO., a Kommanditgesellschaft organised under the laws of Germany, of Ahrstrasse 5—7, Solingen-Ohligs, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to umbrellas, of the kind which have a flat shaped cross-section when in the fully closed state, a correspondingly laterally elongated crown, to which the spokes are attached, and a canopy which sometimes together with an interposed elastic member, is clamped between the crown and a laterally elongated cap mounted on the crown. Such umbrellas are usually telescopic.

In umbrellas which have a circular cross-section when closed, that is to say in round umbrellas, the cap is usually screw-threaded and is screwed into the crown.

However the method of attaching the cap to the crown used in round umbrellas is not satisfactory for use with flat shaped umbrellas of the kind described because with these umbrellas it is necessary to ensure that the two laterally elongate parts, that is the crown and the cap, always extend with their longer dimensions parallel to each other when the umbrella has been assembled. A screwed connection cannot satisfy this requirement.

The object of the present invention is to provide an umbrella of the kind described which is constructed in such a way that when the parts have been assembled the cap is always aligned with the crown.

To this end, according to this invention, in a frame for an umbrella of the kind described the cap is attached to the crown by means of an axially projecting spigot on one of the cap and crown, the spigot being received in axial socket in the other of the cap and crown, and the spigot and socket having a configuration and resilience such that when the spigot is pushed into the socket they snap into a locked position in which the cap and crown are axially located relatively to one another, the spigot and socket being of complementary non-circular section for locating the cap and crown against relative rotation about the longitudinal axis of the umbrella frame.

The snap lock may be provided by an annular rib or groove on the outer surface of the spigot and a complementary annular groove or rib on the inner surface of the socket.

An example of an umbrella constructed in accordance with the invention is illustrated in the accompanying drawing which is a perspective exploded view.

In the illustrated example a tubular umbrella stick has a crown 2 in the form of a flat shaped body mounted on its end as is usual in the case of flat umbrellas of the kind described. Umbrella spokes will be pivoted to the crown by means of pivot pins attached to lugs 5, which are rotatable in the umbrella crown 2 about axes parallel to the stick axis. However the spokes can if desired be attached in some other way, for example in the usual manner by means of wire rings.

The upper surface of the crown 2 contains radial grooves 6. Only the right-hand groove is visible in the drawing. These grooves each receive a cushion 7 made of a resilient plastics material. The purpose of the cushions 7 is to ensure a firm grip for the canopy, this being necessary for the reasons which have already been explained.

As already mentioned, the canopy is clamped between the crown 2 and a cap 9, which is also of flat shape.

[Price 5s. 0d.]

The cap 9 is made of slightly resilient plastics material and has a closed end 11 the hollow interior of which contains an internal collar 12 which is a snap fit in a groove 13 in the outer surface of an extension 14 of the umbrella crown 2. To assemble the parts, the cushions 7 are inserted in the grooves 6 and then the canopy is placed over the cushions. The cap 9 is then snapped over the extension 14, until the collar 12 engages in the groove 13. When it is desired to remove the cap 9, for example in order to replace the canopy, this can easily be done using a suitable tool, due to the resilience of the material of the cap 9.

The end 11 of the cap 9 and the extension 14 of the crown 2 are of rectangular shape with rounded edges. This in itself ensures that the parts 2 and 9 are locked against relative rotation about the stick axis X—X.

WHAT WE CLAIM IS:—

1. A frame for an umbrella which has substantially flat rectangular cross-section when closed, the frame including a laterally elongate crown and a laterally elongate cap between which the umbrella canopy will be trapped when the frame is covered, the cap being attached to the crown by means of an axially projecting spigot on one of the cap and crown, the spigot being received in an axial socket in the other of the cap and crown, and the spigot and socket having a configuration and resilience such that when the spigot is pushed into the socket they snap

into a locked position in which the cap and crown are axially located relatively to one another, the spigot and socket being of complementary non-circular section for locating the cap and crown against relative rotation about the longitudinal axis of the umbrella frame.

2. A frame according to claim 1, in which the snap lock is provided by an annular rib or groove on the outer surface of the spigot and a complementary annular groove or rib on the inner surface of the socket.

3. A frame according to claim 2, in which the spigot extends from the crown and is provided with the annular groove and the socket is formed in the cap and is provided with an annular rib.

4. A frame according to any one of the preceding claims, in which the spigot and socket are substantially rectangular in cross section.

5. An umbrella having a frame according to any one of the preceding claims, with its canopy and at least one resilient cushion clamped between the cap and crown.

6. An umbrella according to claim 5, substantially as described with reference to the accompanying drawings.

For the Applicants:
GILL, JENNINGS & EVERY,
Chartered Patent Agents,
51/52 Chancery Lane,
London, W.C.2.

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51/52 Chancery Lane,
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