

PATENT SPECIFICATION

DRAWINGS ATTACHED

L 199.834

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COMPLETE SPECIFICATION

Improvements in Frames for Umbrellas with a Flattened Cross-Sectional Shape

We, BREMSHEY & 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:—

This invention relates to frames for umbrellas, particularly telescopic umbrellas, with a flattened cross-sectional shape when closed, and according to the invention, such an umbrella frame has a main slider which is connected to the main spokes by main struts, the slider having a pair of diametrically opposed wings to which the ends of the main struts are articulated, a sleeve portion extending from the wings towards the handle, and a locking catch by means of which the slider can be unlocked from the umbrella stick for sliding along the stick, the catch being mounted on the sleeve portion of the slider beneath one of the wings as viewed when the umbrella frame is held upright with the handle lowermost.

Preferably the umbrella frame is a telescopic umbrella frame having a handle with a central bush for accommodating the sleeve portion of the main slider when the umbrella is in its telescoped state.

An example of an umbrella frame in accordance with the present invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a view of the frame of flattened shape in an almost closed position; and,

Figure 2 is a cross-section along the line II—II in Figure 1.

The umbrella frame represented in Figure 1 is for a telescopic pocket umbrella essentially of the usual construction, having a tele-

scopic stick 1, an umbrella crown 2, telescopic spokes 3, main struts 4, auxiliary struts 5, an auxiliary slider 6, a main slider 7 and a handle 8 which will be described later in greater detail. The crown 2, the auxiliary slider 6, the main slider 7 and the handle 8 are all of flattened cross-sectional shape, that is to say they are not circular in section but rather in the form of long ellipses or other flattened shapes, so that when the umbrella is closed it has a flattened structure.

As shown in Figures 1 and 2, the handle 8 has a base flange 9 of elongated shape, anchored to the lower end of the stick 1 by a transverse pin 10. The flange 9 extends upwards to form a bush 11 which has flat outer surfaces 12. When the umbrella frame is shortened, the bush 11 accommodates a slider sleeve 13 which is formed in the usual way as an extension, towards the handle, of the opposed wings forming the flange of the main slider 7. The slider sleeve 13 has a radial projection 14 beneath one of the wings, in which projection is mounted a spring-loaded locking catch. Of this catch the drawing shows only the manually actuated outer end 15. To allow the bush 11 to accommodate the slider sleeve 13 with its radial projection 14, the wall of the bush 11 is interrupted by a longitudinal slot 16. This arrangement of the projection 14 and the locking catch 15 fits rather well into the flat shape of the umbrella.

The handle 8 contains two recesses or pockets 19, each of which has a bottom 9 and flat side walls 17 whose edges 18 slope downwards and outwards towards the outer ends of the base 9 of the handle. The slot 16 opens out into the inner side of one of these recesses or pockets 19. When the umbrella is being telescoped together the operator

[Price 5s. 0d. (25p)]

gathers the spherical tips 20 of the spokes 3 into the recesses 19. The feature forms the subject of our copending Application No. 29179/68 Serial No. 1,199,833. The spoke ends are then held together by means of a rubber band (not shown) in the usual way. When the umbrella is to be opened, the spoke ends are released and the locking catch 15 is also released so that the umbrella can be extended and opened. The sides 17 on the pocket 19 into which the catch 15 projects and the underneath of the flange of the main slider 7 provide the operator's finger or thumb with firm support when releasing the catch 15.

WHAT WE CLAIM IS:—

1. An umbrella frame with a flat cross sectional shape when in the closed position, the umbrella having a main slider which is connected to the main spokes by main struts, the slider having a pair of diametrically opposed wings to which the ends of the main

struts are articulated, a sleeve portion extending from the wings towards the handle, and a locking catch by means of which the slider can be unlocked from the umbrella stick for sliding along the stick, the catch being mounted on the sleeve portion of the slider beneath one of the wings as viewed when the umbrella frame is held upright with the handle lowermost.

2. An umbrella frame according to Claim 1, which is a telescopic umbrella having a handle with a central bush for accommodating the sleeve portion of the main slider when the umbrella is in its telescoped state.

3. An umbrella incorporating a frame according to Claims 1 or Claim 2.

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