

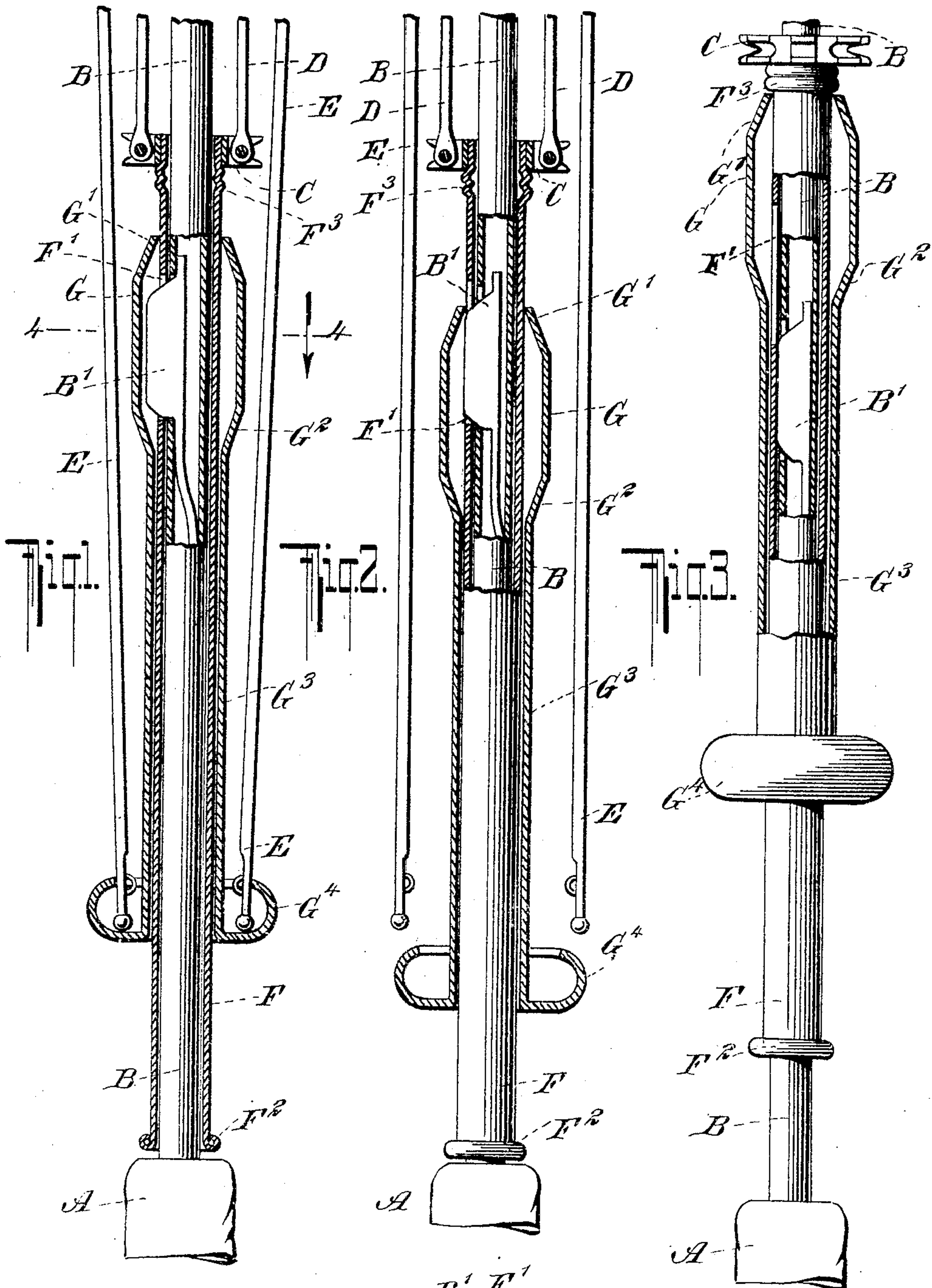
No. 803,739.

PATENTED NOV. 7, 1905.

A. H. BAMBERGER & N. D. INGRAM.

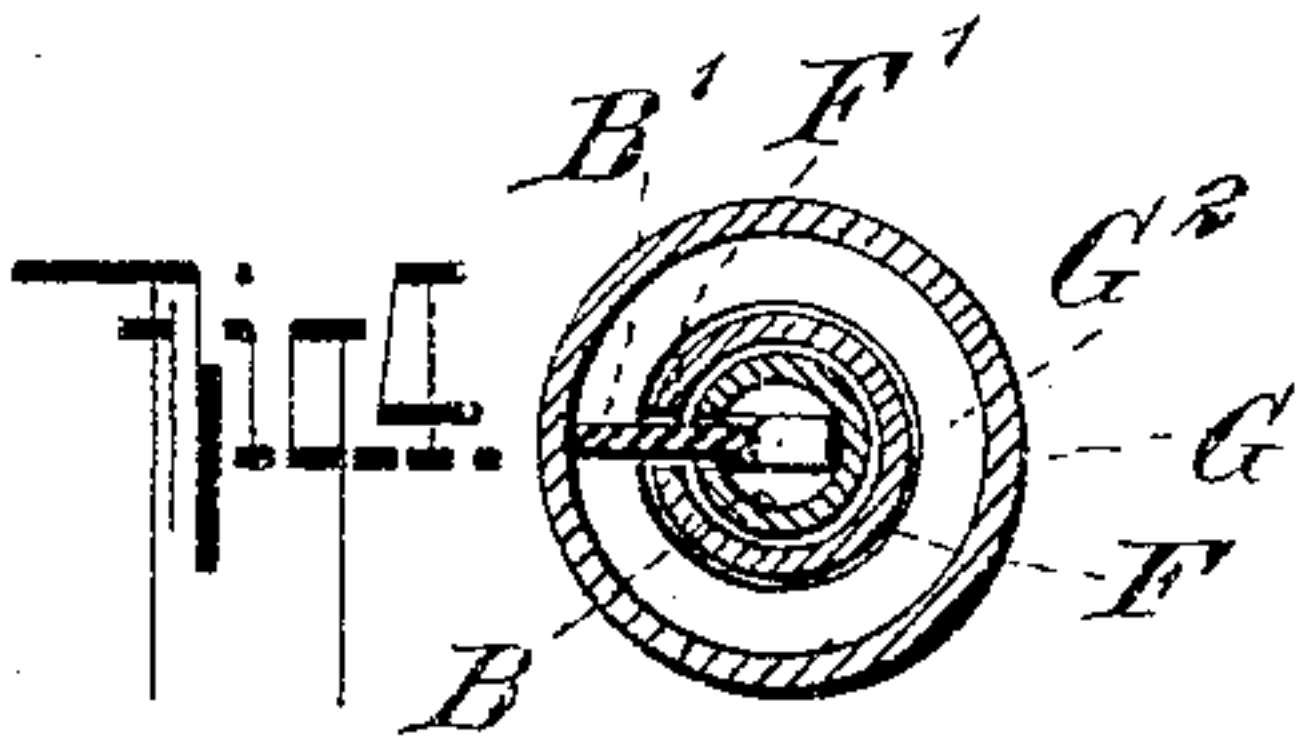
UMBRELLA.

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WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## UMBRELLA.

No. 803,739.

Specification of Letters Patent.

Patented Nov. 7, 1905.

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*To all whom it may concern:*

Be it known that we, ALFRED H. BAMBERGER, a resident of the borough of Manhattan, county of New York, and NATHAN D. INGRAM, a resident of the borough of Brooklyn, county of Kings, city and State of New York, citizens of the United States, have jointly invented certain new and useful Improvements in Umbrellas, of which the following is a specification.

Our invention relates to umbrellas, parasols, and the like, and has for its object to improve the mechanism for retaining the ends of the ribs and operating the catches which hold the umbrella in the open or closed position.

The invention will be fully described hereinafter and the features of novelty pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a sectional elevation of a portion of an umbrella embodying our invention, showing the umbrella closed and the ends of the ribs retained in the cup or holder. Fig. 2 is a similar view showing the parts shifted to release the ribs. Fig. 3 illustrates the position of the parts in the act of opening the umbrella, and Fig. 4 is a sectional plan on line 4 4 of Fig. 1.

A indicates the handle of the umbrella; B, the rod, (preferably tubular;) B', the lower or closing catch; C, the crown of the runner—that is, that portion of the runner with which the stretchers D are connected—and E the ribs. These parts may be constructed in any customary or approved manner.

With the runner-crown C is rigidly connected a sleeve F, surrounding the rod B and extending toward the handle A. The length of this sleeve is preferably such as to entirely cover the rod B from the handle A to the runner-crown when the latter is in the position shown in Figs. 1 and 2. Thus in the closed position of the umbrella the portion of the rod adjacent to the handle is covered or concealed, giving the umbrella a neat appearance. The sleeve is provided with an opening or slot F', through which the catch B' is adapted to project. To actuate said catch, we provide an operating member surrounding the sleeve F, so as to cover the opening F', and mounted to slide thereon lengthwise. This operating member has a wide, prefer-

ably cylindrical, portion G to receive the catch B' in its projected or locking position, Fig. 1, and two contracted or tapered portions G' G<sup>2</sup>, one of which, G', is adapted to force the catch inward when the operating member is moved downward, Fig. 2, as in closing the umbrella, while the other portion G<sup>2</sup> performs the same function upon an upward movement of said member, Fig. 3. The said operating member is connected, as by a sleeve G<sup>3</sup>, with a cup-shaped holder G<sup>4</sup>, adapted to receive the ends of the ribs E and to retain them in the closed position, Fig. 1. The sleeve F may be formed with a bead or other projection F<sup>2</sup> to limit the movement of the combined catch-operating member and rib-holder. Another bead F<sup>3</sup> may be provided adjacent to the runner-crown C for the same purpose. It will be understood that the operating member G G' G<sup>2</sup> is adapted to actuate not only the lower catch B', but also the upper catch, (not shown,) which holds the umbrella open in the usual manner.

When the umbrella is in the closed position, Fig. 1, and it is desired to open it, the person grasps the holder G<sup>4</sup> and first pulls it toward the handle A. (See Fig. 2.) This movement releases the tips of the ribs E from the holder G<sup>4</sup>, so that the said tips will spread. Then the umbrella may be opened by pushing the holder G<sup>4</sup> away from the handle A. This causes the member G<sup>2</sup> to press the catch B' inward, so as to release the sleeve F from the catch. When the end G' of the operating member comes against the runner-crown C, or rather against the bead F<sup>3</sup>, Fig. 3, the further movement of the parts G G' G<sup>2</sup> G<sup>3</sup> G<sup>4</sup> will cause the runner to be shifted away from the handle, opening the umbrella in the usual manner. Our invention affords a very convenient means of opening and closing the umbrella, since the rib-tip holder is always readily accessible, whereas the catch-operator is not. (See Figs. 1 and 2.) The sleeve G<sup>3</sup> and rib-tip holder G<sup>4</sup> form an extension projected from the catch-operator toward the handle.

Various modifications may be made without departing from the nature of our invention. More particularly, we do not restrict ourselves to the specific construction of the catch-operator shown herein.

We claim as our invention—

1. The combination of the rod and the catch thereon, the runner-crown mounted to slide on



the rod, the runner-sleeve connected with said crown and having a slot to receive the said catch, the catch-operator surrounding the runner-sleeve and movable lengthwise thereof, 5 and the rib-tip holder connected with said catch-operator to move therewith, said runner-sleeve extending toward the handle through and beyond the rib-tip holder and being of such length as to cover the rod between the 10 handle and the rib-tip holder when the latter is nearest the handle.

2. The combination, with the runner comprising a runner-crown and a runner-sleeve, of the rod on which said runner is mounted 15 to slide, the catch for holding the runner, the catch-operator surrounding the runner-sleeve and movable lengthwise thereof, and the rib-tip holder connected with said catch-operator to move therewith, said runner-sleeve extend- 20 ing toward the handle through and beyond the rib-tip holder and being of such length as to cover the rod between the handle and the rib-tip holder when the latter is nearest the handle.

25 3. The combination, with the runner comprising a runner-crown and a runner-sleeve, of the rod on which said runner is mounted to slide, the catch for holding the runner, the

rib-tip holder movable lengthwise on the runner-sleeve, and the catch-operator connected 30 with the rib-tip holder and engaging that part of the catch which holds the runner, said catch-operator being located between the rib-tip holder and the runner-crown, and the rib-tip holder being located between the catch- 35 operator and the handle.

4. The combination of the umbrella-rod, the sliding runner having a sleeve of such length that its end will lie adjacent to the handle when the umbrella is closed, the catch for 40 holding the umbrella in the closed position, the catch-operator movable on the runner-sleeve and engaging the holding or retaining portion of the catch, and the rib-tip holder located between the catch-operator and the han- 45 dle and connected with the catch-operator to move therewith.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

ALFRED H. BAMBERGER.  
NATHAN D. INGRAM.

Witnesses:

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OTTO V. SCHRENK.