

No. 742,049.

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B. R. MYERS & C. A. JACOBY.
UMBRELLA.

APPLICATION FILED JAN. 8, 1903.

NO MODEL.

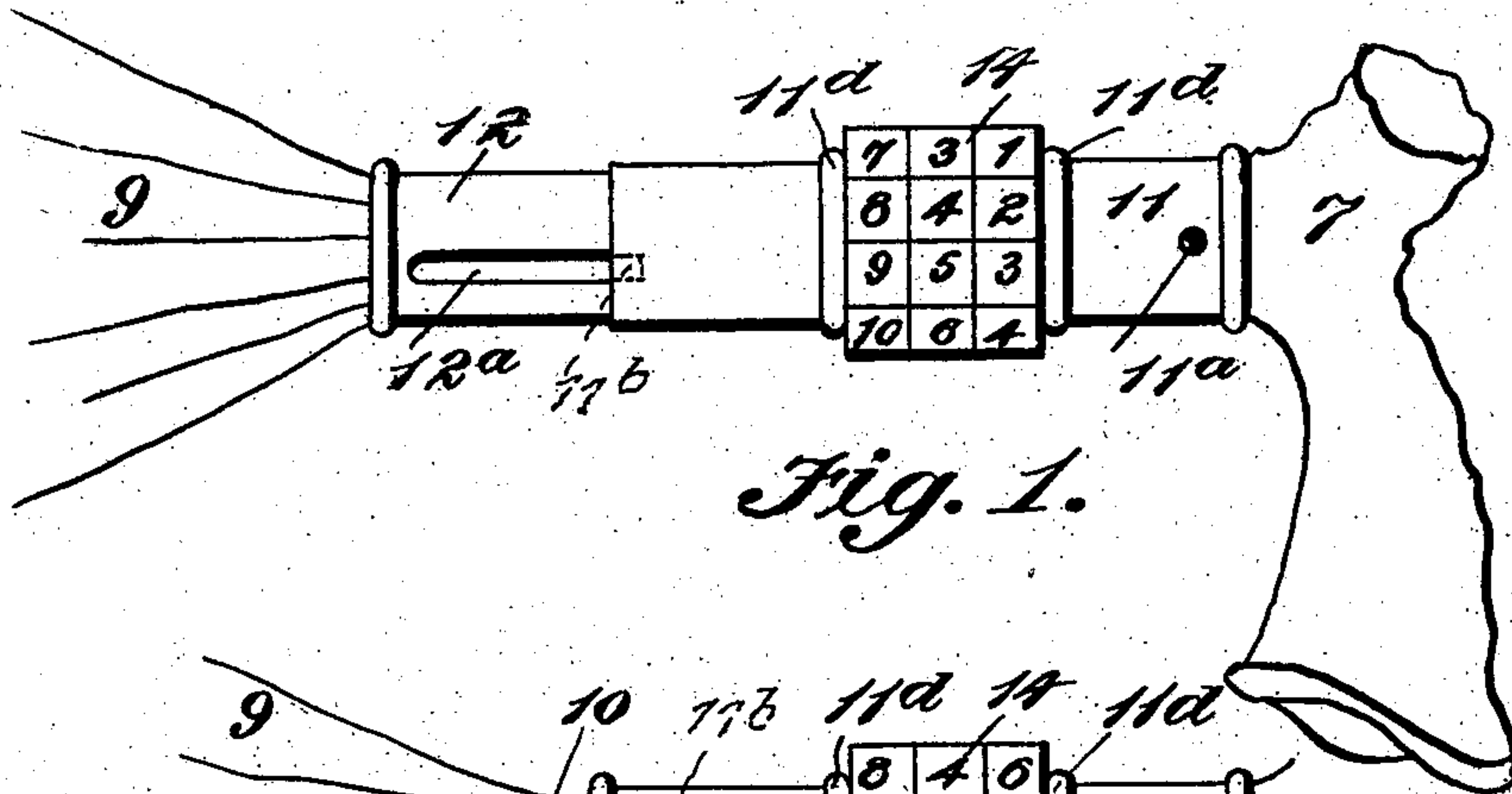


Fig. 1.

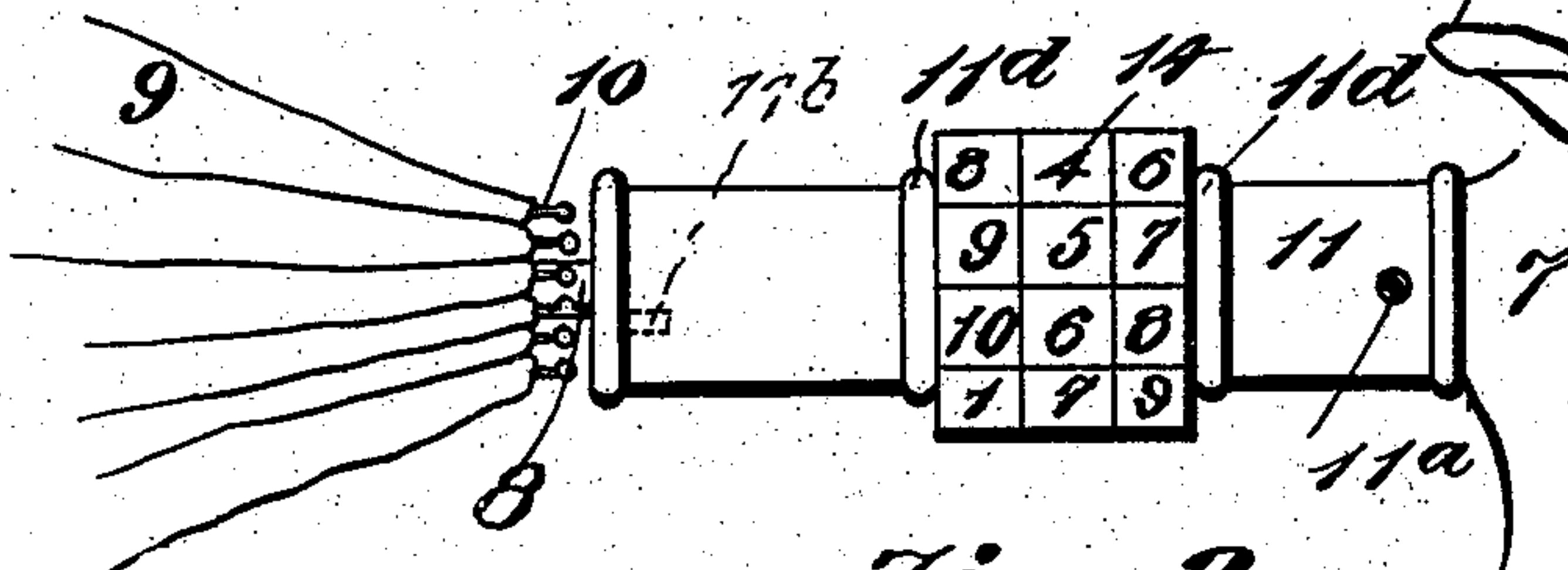


Fig. 2.

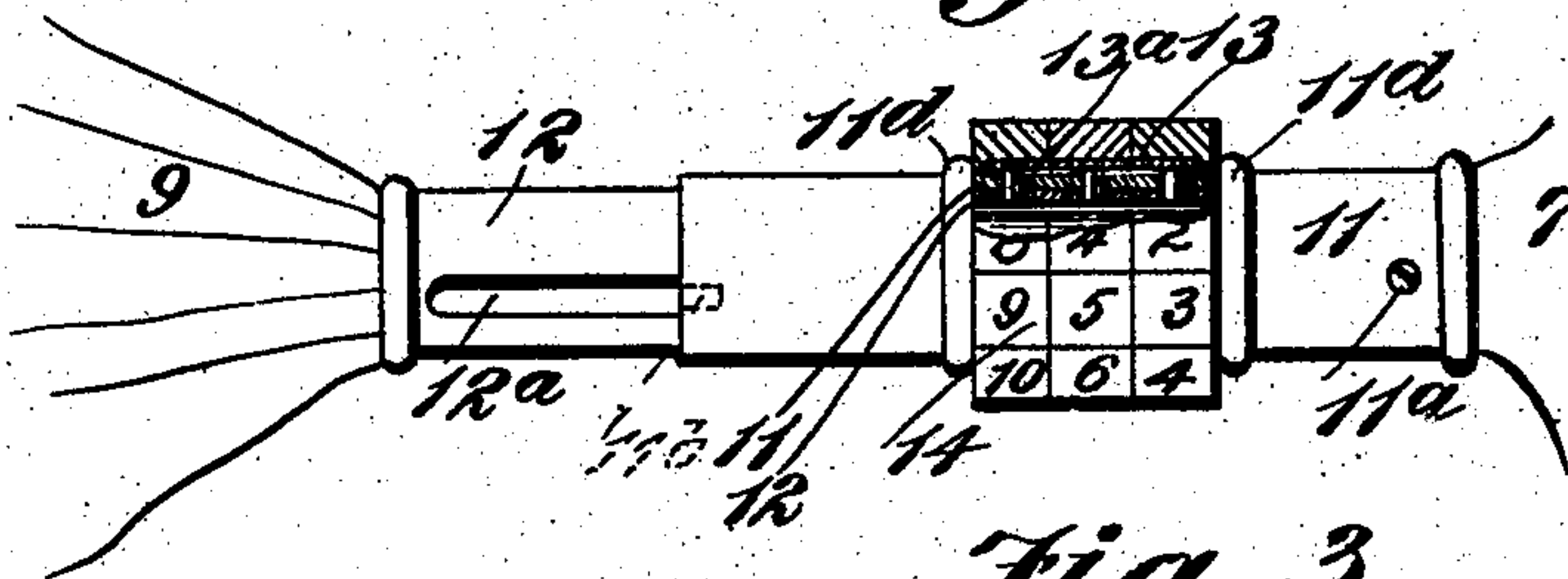


Fig. 3.

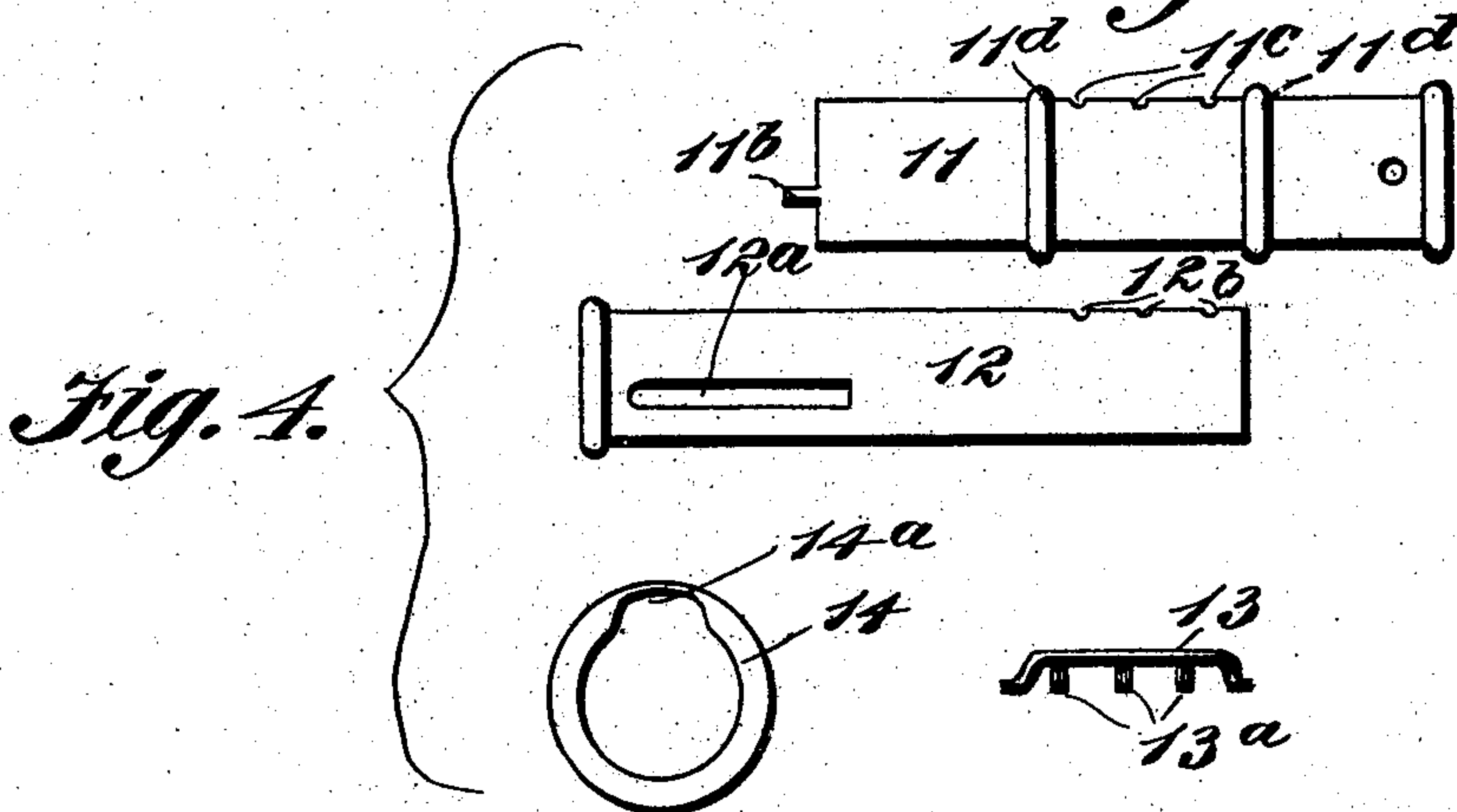


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 742,049, dated October 20, 1903.

Application filed January 8, 1903. Serial No. 138,239. (No model.)

To all whom it may concern:

Be it known that we, BENJIMAN R. MYERS and CHARLES A. JACOBY, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Umbrellas; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

Our invention relates to umbrellas, and particularly to a lock-retainer for the ribs thereof whereby they may be locked when the umbrella is closed.

The invention includes a permutation-lock applied to a sliding tube, which when locked incloses the ends of the ribs. The umbrella is thus rendered useless to unauthorized persons.

Our invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the ribs locked. Fig. 2 shows the same unlocked. Fig. 3 is a side elevation, partly in section. Fig. 4 are detail views of the various parts of the lock.

Referring specifically to the drawings, 7 indicates the handle of an umbrella or parasol; 8, the stick; 9, the cover, and 10 the ribs, to which the cover is secured. A fixed tube 11 is secured to the handle by a screw 11^a or otherwise and receives a telescoping tube 12, having a slot 12^a. A finger 11^b at the end of the tube 11 projects into this slot and guides the movement of the tube 12, preventing turning in the tube 11 and also its excessive outward movement. The tube 11 has a number of holes 11^c, which register with a like number of holes 12^b in the tube 12 when the latter is extended to inclose the ribs. Over these holes a thin spring-metal plate 13 is placed, having on its under side a number of studs or pins 13^a, adapted to be forced into the holes 11^c and 12^b to hold the tube 12 against longitudinal movement. The

plate carrying the pins is controlled by rotating permutation-rings 14, having inner depressions 14^a. The rim of each ring has a dial, by which the combination is set. The rings turn freely on the tube 11 and normally confine or press the pins 13^a into the holes in the tubes 11 and 12, locking them together. To unlock the tubes, the permutation-rings are turned until the depression 14^a of each is over the plate 13, which will then spring up and withdraw the pins 13^a from the holes in the tube. The tube 12 will then slide in and out of the tube 11. Beads 11^d on the tube 11 retain the rings 14 and plate 13 in place.

When the sliding tube is extended, it incloses the ends of the ribs and is locked in the manner described. To unlock, the combination is worked, bringing the depressions in the permutation-rings to register with the spring-plate, which then withdraws the pins from the holes of the inner tube. This may then be retracted to release the ribs. Obviously the retainer can be unlocked only by a person who knows the combination.

We have shown three permutation-rings and their cooperating parts; but a greater or smaller number of parts may be used.

Having thus described our invention, what is claimed as new, and desired to be secured by Letters Patent, is—

A rib-lock for umbrellas comprising a tube fixed to the handle thereof, a slotted telescoping tube therein slidable over the ends of the ribs, both tubes having registering holes; permutation-rings around the tubes, a spring-plate between the rings and tubes, locking pins on the spring-plate adapted to be forced into the holes to lock the tubes, and a finger on the fixed tube extending into the slot of the telescoping tube to prevent its rotation and withdrawal from the fixed tube, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

BENJIMAN R. MYERS.
CHARLES A. JACOBY.

Witnesses:

SIGNA FELTSKOG,
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