

(No Model.)

F. LEISS.

TORCH.

No. 397,009.

Patented Jan. 29, 1889.

FIG. 1.

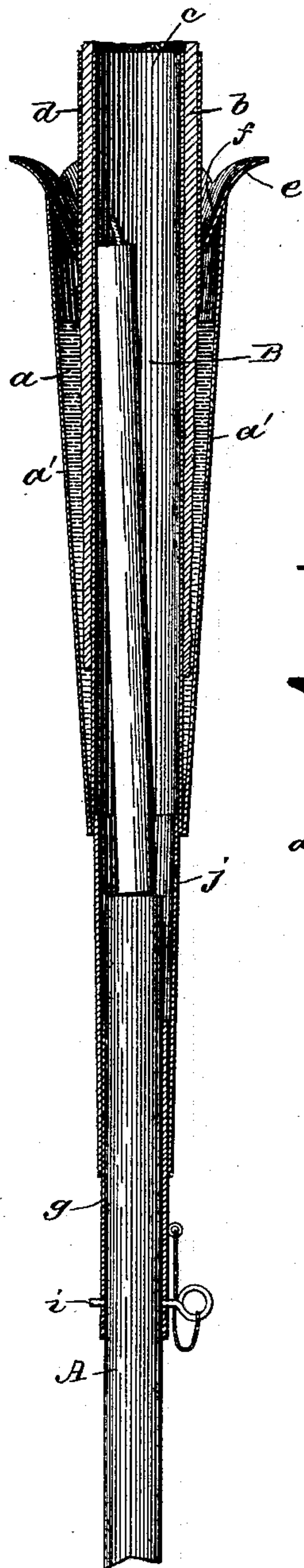


FIG. 2.

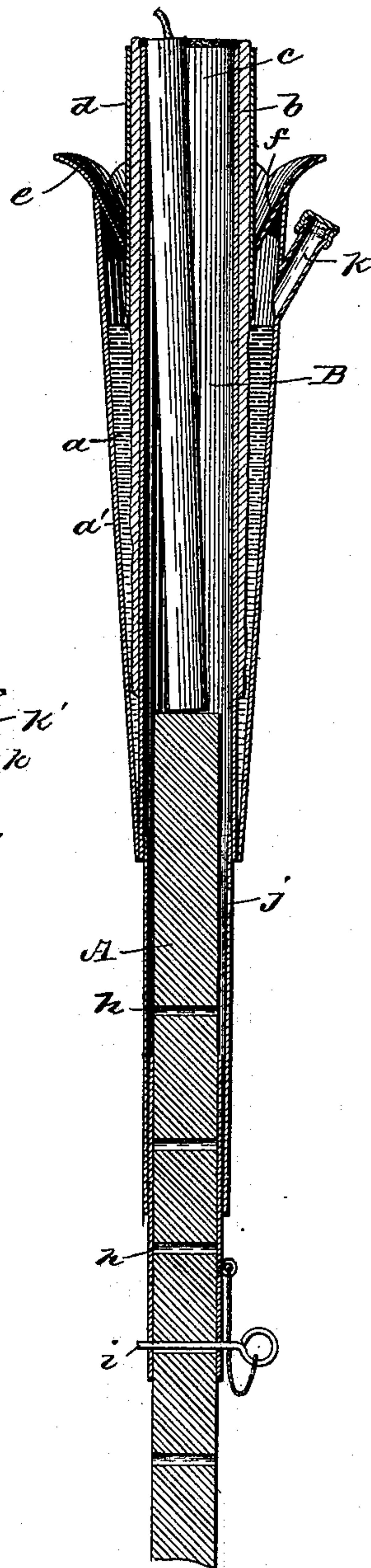
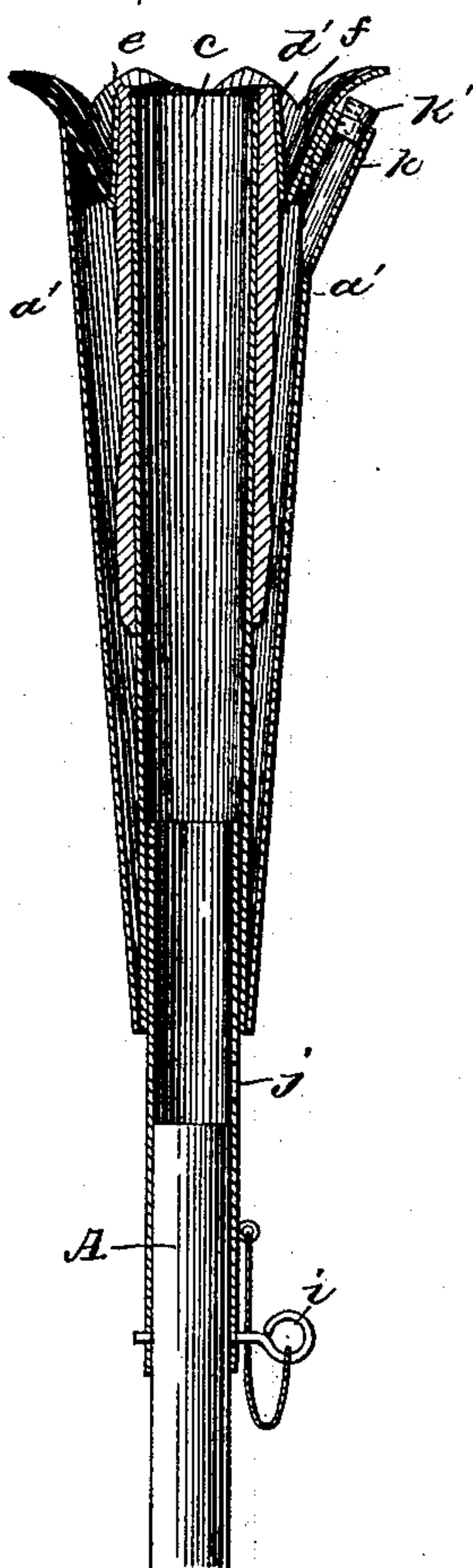


FIG. 3.



Witnesses.

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# UNITED STATES PATENT OFFICE.

FREDERICK LEISS, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO  
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## TORCH.

SPECIFICATION forming part of Letters Patent No. 397,009, dated January 29, 1889.

Application filed June 1, 1888. Serial No. 275,700. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK LEISS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Torches, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a torch suitable for use in campaign and other processions, and for other purposes, of such construction that it may be used as a receptacle for fire-works and as a holder for the same while they are being burned. To this end I construct a metallic receptacle suitable to hold a quantity of oil and provide the same with a wick to reach into the oil and to be lighted at the top. The wick, which is preferably tubular, but which may be flat or solid, is adjacent to the receptacle or holder for the fire-works, so that a sliding handle, with which the torch is provided and which extends into the fire-works holder, may be pushed up into said holder to lift the fire-works up to the lighted top of the wick, where they will be ignited.

In the accompanying drawings, Figure 1 is a vertical section of a torch embodying my invention. Fig. 2 is a similar view with the handle raised to bring a Roman candle in the fire-works holder or receptacle into position to be ignited. Fig. 3 is a sectional view of a modification.

The torch is preferably made of tin or other similar sheet metal, and is of proper shape to form a receptacle, *a*, for oil between the inner and outer walls of the said receptacle. The form of my torch herein illustrated is intended to have a tubular wick, *b*, held between an inner tube, *c*, which constitutes the fire-works holder *B*, and an outer or wick-holding tube, *d*, the latter being vertically adjustable, so as to govern the amount of projecting wick at the top exposed for burning. The said tube *d* may be frictionally retained in place by being pressed against by the lower end of the flaring protector *e*, which latter may be of any suitable size to catch sparks or cinders falling from the fire-works or the burning wick.

The oil-receptacle *a* is closed at its top by the wick *b* and an inclined wall, *f*, below the protector *e*. *A* is the stock or handle of the torch, fitting somewhat snugly in the lower tubular end, *g*, of the torch, but adapted to slide vertically therein. The said handle *A* is provided with two or more holes, *h*, through which may be inserted a pin, *i*, to retain the torch in proper position on the handle.

To secure a proper supply of air to the inside of the burning wick, the metallic portion of the torch is provided below the oil-receptacle with one or more air-holes, *j*, the part of the torch in which said hole or holes are formed being of larger diameter internally than the handle, so that when the latter is raised, as in Fig. 2, the air-passage will not be closed.

Oil may be supplied to the oil-receptacle *a* by removing the wick *b* and the wick-holding tube *d*; or the torch may, if desired, be provided with an ordinary screw-capped nipple, *k*, Fig. 2, for greater convenience in filling.

The fire-works receptacle or holder may be supplied with Roman candles, colored lights, rockets, or other fire-works, which may be carried in the said holder until it is desired to ignite them. In Fig. 1 a Roman candle is represented as being thus safely lodged in the fire-works holder, the handle being down far enough so that the upper end of the candle is at a safe distance below the top or end of the wick to be lighted.

In Fig. 2 the handle is represented as being raised far enough to bring the top of the candle up to the lighted end of the wick to ignite the said candle, the latter being conveniently held by the torch while burning or exploding. Colored lights, common crackers, "flower-pots," rockets, and other fire-works may be similarly carried in the fire-works receptacle and ignited when desired by pushing the handle upward.

It will of course be understood that the shape, proportions, and details of construction of my improved torch may be varied considerably without departing from the essential features of my invention.

In the modification shown in Fig. 3 the vertically-adjustable tube *d* is omitted, and the



wick is held between a tube, *d'*, soldered to the lower or inclined part, *f*, of the flaring protector *e*, and the inner tube, *c*. As one wick will in practice last as long as the torch, 5 the wick may be placed in position around the tube *c* before the top piece, *e f*, is soldered onto the outer wall or tube, *a'*. The oil-inlet nipple or nozzle *k* (shown in Fig. 3) is closed by a cork or plug, *k'*. To raise the wick, it 10 may be picked or pulled up by any pointed instrument, as is common with cheap torches.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. A torch having an oil-receptacle and a 15 wick, and being also provided with a fire-works holder adjacent to said wick, combined with a sliding handle having transverse holes and adapted to be pushed upward in said holder to raise the fire-works to the top of the wick to 20 be ignited, and a pin for securing said handle in different positions, substantially as set forth.

2. The combination, with a hollow torch, the center of which constitutes a fire-works 25 holder which is surrounded with an oil-receptacle, of a circular wick around said fire-works

holder, a vertically-adjustable wick-holding tube outside of said wick, a flanged protector, the lower end of which presses against said tube, and a vertically-adjustable handle hav- 30 ing transverse holes and adapted to be pushed upward into said fire-works holder, and a pin for securing said handle in different positions, substantially as set forth.

3. The combination, with the metallic torch- 35 body having the oil-receptacle *a*, the circular wick *b*, the inner tube, *c*, the wick-holding tube *d*, the flanged protector *e*, and one or more air-inlet holes, *h*, of the sliding or vertically-adjustable handle *A*, fitting the lower 40 metallic part or tube of the said torch, but that part of the said tube in which said air-inlet holes are formed being of greater diameter internally than said handle, substantially as set forth. 45

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK LEISS.

Witnesses:

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H. E. LANE.