G. F. HOLLIS.

TORCH.

No. 180,585. Patented Aug. 1, 1876.

Fig. 1.

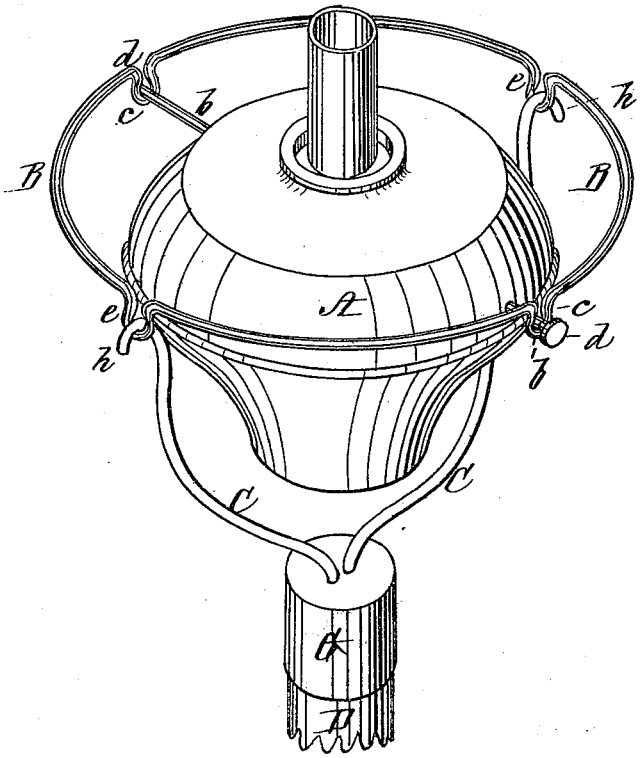
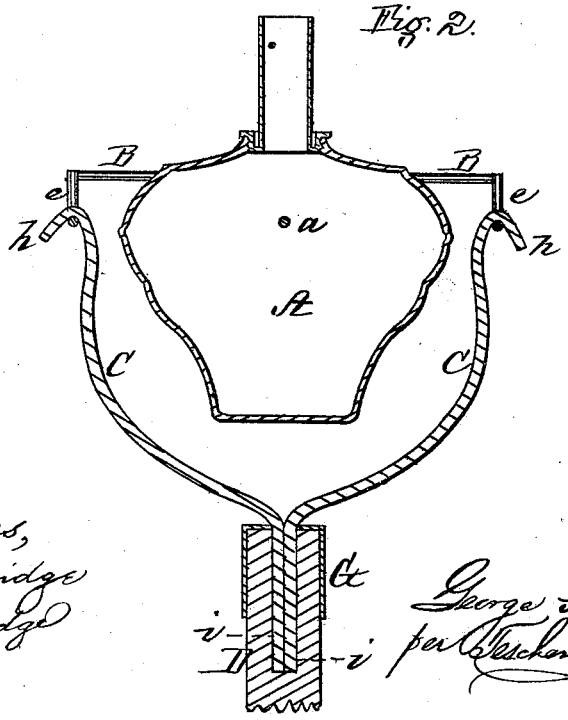


Fig. 2.



Witnesses,
W. J. Cambridge
J. C. Cambridge

Inventor,
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per Fleschmann & Dearne
Attys.

UNITED STATES PATENT OFFICE.

GEORGE F. HOLLIS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN TORCHES.

Specification forming part of Letters Patent No. **180,585**, dated August 1, 1876; application filed July 21, 1876.

To all whom it may concern:

Be it known that I, GEORGE F. HOLLIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Swinging Torches, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a double-swing torch constructed in accordance with my invention. Fig. 2 is a vertical section through the center of the same.

The oil-receptacle of the ordinary double-swing torch has heretofore been pivoted within a sheet-metal ring swinging upon a U-shaped support, also of sheet metal. This construction is objectionable, as it requires the employment of skilled labor to form the pivots and properly put the parts together, which renders the torch expensive, besides which it presents a clumsy appearance.

My invention has for its object to overcome these objects; and consists in a double-swing support for the oil-receptacle, formed of wire, in such manner as to greatly simplify the construction and reduce the cost of manufacture.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents the oil-receptacle, which may be of any desired form, and diametrically through which passes a wire or rod, *a*, the extremities of which project out beyond the sides of the oil-receptacle, and form pivots *b b*, which pass through two eyes or loops, *c c*, formed on opposite sides of a wire ring, B, each pivot *b* being provided at its outer end with a head, *d*, which serves as a stop for preventing the oil-receptacle from being accidentally detached from the ring B. This ring is also provided with two other eyes or loops, *e e*, situated in a line at right angles to that passing through the eyes *c c*.

C is a U-shaped support formed of wire, the upper ends *h h* of which are hook-shaped, and pass through the eyes *e e* of the ring B, which is thus pivoted and swings freely thereon, this construction allowing the oil-receptacle to swing sufficiently in both directions, so as to assume an upright position should the handle D be inclined from the vertical, the oil-receptacle being prevented from turning over and spilling its contents by the ring B coming into contact with the support C.

The lower ends *i i* of the U-shaped support are united, and pass vertically down through a cylindrical sheet-metal socket, G, the top of which is attached to the support, this socket fitting over the upper end of the stick or handle D of the torch, the lower ends *i i* of the wire support extending down below the socket, and fitting into a hole bored in the center of the stick, by which means the splitting of the socket when the lower end of the stick is struck forcibly on the ground, incident to the old construction, is avoided.

The wire ring B is bent into the required shape and the eyes *c e* formed thereon in an extremely simple and expeditious manner and at a trifling cost, while the operations of connecting the wire support C and ring D, and hanging the oil-receptacle A therein, are cheaply and easily performed without the employment of skilled labor, which enables me to construct a double-swing torch at a much lower price than where a sheet-metal support is employed, a much lighter and neater appearance being also presented.

What I claim as my invention, and desire to secure by Letters Patent, is—

The wire ring B, with its eyes or loops *c e*, pivoted upon the wire support C, in combination with the oil-receptacle A, pivoted within the wire ring B, all constructed and operating substantially as and for the purpose set forth.

Witness my hand this 19th day of July, 1876.

GEO. F. HOLLIS.

In presence of—

P. E. TESCHEMACHER,

W. J. CAMBRIDGE.