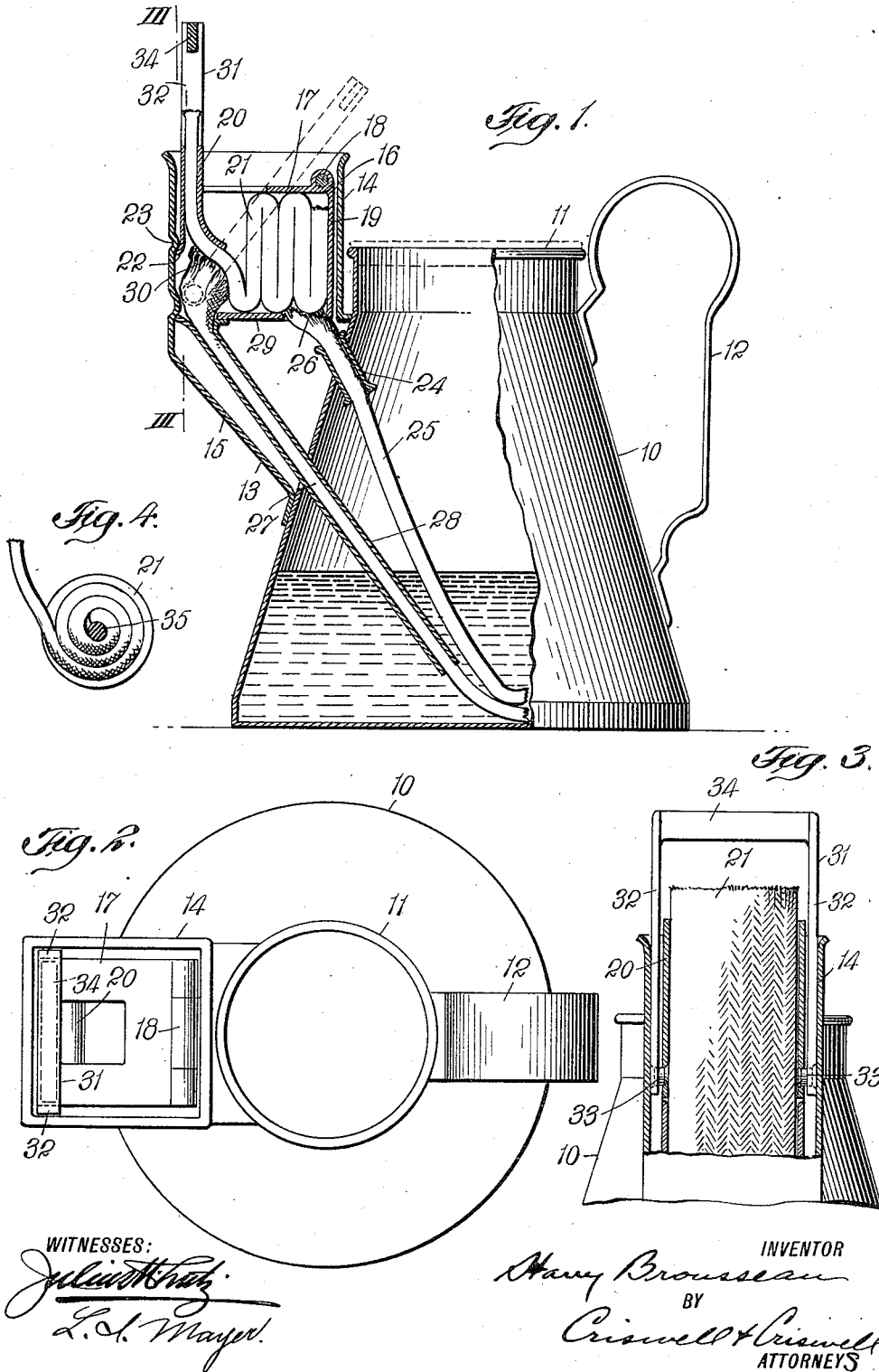


H. BROUSSEAU.
LAMP.

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1,060,314.

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UNITED STATES PATENT OFFICE.

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LAMP.

1,060,314.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY BROUSSEAU, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Lamps, of which the following is a full, clear, and exact description.

This invention relates more particularly to a lamp adapted to burn heavy congealable material.

The primary object of the invention is to provide an improved device in which material, as wax or the by-products resulting from refining oil, may be readily burned, thus adapting the device to utilize a material that ordinarily goes to waste.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a sectional view, partly in elevation, of one form of device embodying my invention, adapted particularly for burning wax or other heavy congealable medium. Fig. 2 is a plan view. Fig. 3 is a fragmentary vertical section taken on the line III—III of Fig. 1; and Fig. 4 shows how the wick may be differently arranged.

The body 10 of the lamp may be of any suitable construction and may be provided with a cover 11 by means of which the body or receptacle 10 may be filled, and to said body may be attached a handle 12 for carrying the same. A frame or extension 13 is held to the casing 10 and this casing may have a head 14 substantially rectangular in form, which may be attached to the body or member 10 by the angular casing or bracket portion 15. This extension 13 has a wick holder 16 suitably held therein and this wick holder may be provided with a cover or top 17 which is hinged at 18 to the body 19 and carried by the cover is a wick holder or tube 20 through which the end of the wick 21 is adapted to pass, said wick being adjustable in the tube portion 20 either by moving the wick by hand or by a manual feed as preferred. The tubular portion 20 has an engaging end or lip, as 22, and this end is adapted to engage a depressed portion 23 in the head 14 so as to normally hold the said

tube 20 in position to light the wick, the wick holder being adapted to be removed as an entirety from the head 14 as desired, or held permanently therein and only the cover 17 adapted to swing upwardly in order to remove the wick. The cover is open so that the material not burned at the lighting end of the wick may return to the holder.

To automatically feed the lighting means to the wick, various means may be employed. As shown the wall of the receptacle 10 is provided with a tube 24 through which passes a feeder 25 in the form of a wick, the lower end of which extends into the medium, and the upper end, as 26, is in contact with the body of the wick at the rear thereof, and at the forward portion of the wick 21 is a second feeder or feeding element 27 also in the form of a wick which passes through an extended tube 28 projecting within the head 13 so as to form a support for the base 29 of the wick holder. The feeder 27 has its end 30 in contact with the wick 21 at the forward portion thereof so that the lighting medium will be fed to the wick until the latter is practically entirely burned, thus the feeders 25 and 27 serve to supply the liquid to the wick at different points, and not only permit the wick to be entirely free of the liquid within the receptacle, but also permit the wick to be substantially entirely used up before having to replace the same.

A heating device 31 is provided to preliminarily heat the wick 27 as well as the upper part of the wick 21, so that the medium, if congealed, may be sufficiently melted to properly supply the wick. This device 31 is substantially U-shaped in form, and has two parts or arms 32 which are pivoted, at 33, to the wick holder, and has a bar or part 34 which is adapted to extend over the wick 21 above the tubular portion 20 of the wick holder, so that when the wick is lighted, the heat from the flame will cause the bar 34 to transfer enough heat to the tube 20 and wick 27 to liquefy the congealed medium within the receptacle 10, after which the said device 31, or at any time desired, may be moved to the position shown in dotted lines in Fig. 1.

It will thus be seen that a heavy or congealable material, as wax, may be readily burned and that the by-product resulting from the refining of petroleum may be utilized and which ordinarily goes to waste;

that by means of the independent feeder or feeders, the wick may be made to be entirely free of the congealable liquid or medium so that the same may be readily adjusted for lighting purposes; and that said wick may be substantially entirely consumed and kept lighted whether or not the medium is low within the receptacle or the wick short or long as the case may be.

10 In Fig. 4 the wick instead of being arranged as shown in Fig. 1, may be coiled so as to be readily unwound instead of the zig-zag arrangement, and in this case may be held to a rod or roller 35.

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

1. A lamp having a receptacle adapted to hold a medium to be lighted, a head located on one side of the receptacle and having a depressed portion, a wick holder comprising a tubular part through which the wick passes, said part forming a portion of a cover and having an end adapted to engage the depressed portion of the head to hold the same in position, a heating device, and means for feeding the medium to the wick.

2. A lamp having a receptacle adapted to hold a medium to be lighted, a head located on one side of the receptacle and having a depressed portion, and a wick holder comprising a tubular part through which the wick passes, said part forming a portion of a cover and having an end adapted to engage the depressed portion of the head to hold the same to position.

3. A lamp having a receptacle, a head secured thereto on one side of the receptacle, a holder having a hinged cover provided with a tubular part, a wick extending through the tubular part and arranged entirely within the holder independent of the receptacle, means for holding the cover in position, two tubular devices projecting through the body of the receptacle, two wick

feeds extending through the tubes and entering the receptacle at one end and engaging the body of the wick at the other and a heating device pivotally held to the wick holder.

4. A lamp having a receptacle, a head secured thereto on one side of the receptacle, a holder having a hinged cover provided with a tubular part, a wick extending through the tubular part and arranged entirely within the holder independent of the receptacle, means for holding the cover in position, a tubular device projecting through the body of the receptacle, and a wick feed extending through the tube and entering the receptacle at one end and engaging the body of the wick at the other.

5. A lamp having a receptacle, a head secured thereto on one side of the receptacle, a holder having a hinged cover provided with a tubular part arranged within the head, a wick extending through the tubular part and arranged entirely within the holder independent of the receptacle, means for holding the cover in position, and two wick feeds entering the receptacle at one end and engaging the body of the wick at the other.

6. A lamp having a receptacle for the lighting medium, a holder carried by one side of the lamp for containing a wick, a wick tube in the latter holder, a conduit extending from the receptacle into the holder, a feed wick in the conduit engaging the wick in the holder in proximity to the wick tube, a second conduit, and a feed wick in the latter conduit engaging the wick in the holder at a portion remote from that engaged by the said feed wick.

This specification signed and witnessed this 3rd day of May, A. D. 1910.

HARRY BROUSSEAU.

Witnesses:

W. A. TOWNER, Jr.,
L. I. MAYER.