

(No Model.)

L. J. ATWOOD.

WICK TUBE AND RAISER FOR OIL STOVES.

No. 304,985.

Patented Sept. 9, 1884.

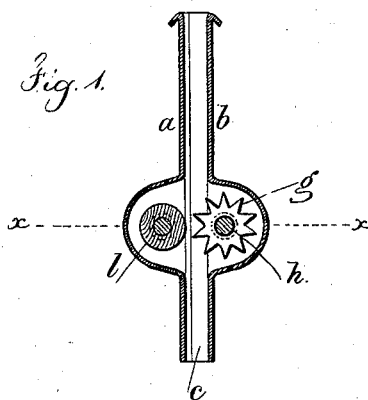
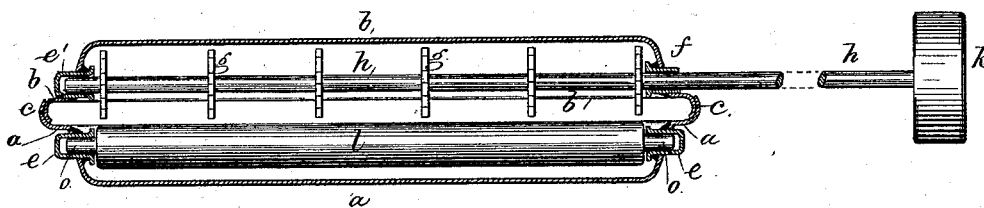


Fig. 2.



Witnesses

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att'y

UNITED STATES PATENT OFFICE.

LEWIS J. ATWOOD, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
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WICK TUBE AND RAISER FOR OIL-STOVES.

SPECIFICATION forming part of Letters Patent No. 304,985, dated September 9, 1884.

Application filed February 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, LEWIS J. ATWOOD, of Waterbury, in the State of Connecticut, have invented an Improvement in Wick Tubes and Raisers for Oil-Stoves, of which the following is a specification.

In ordinary lamp-burners the wick has been raised by means of two rollers, one at each side of the wick, and there have in some cases been disks opposite to the wick-raising wheels to lessen friction.

My present invention relates to the wick-tube for an oil-stove, in which the two sides of the wick-tube are made alike, each one having a recess or housing that is struck up in the metal of the wick-tube, and I combine with these a wick-raising shaft and wheels such as have been separately used, and a roller within the housing at the opposite side of the wick-tube, whereby the friction and force required to raise or lower the wick are materially lessened, and the roller serves to guide the broad wick at one side through and prevent the same becoming misplaced or bent into an irregular condition, thereby insuring uniformity in the wick throughout the entire length of its upper end.

In the drawings, Figure 1 is a vertical section of the wick-tube and wick-raisers, and Fig. 2 is a sectional plan at the line *x x*.

The side plates, *a b*, of the wick-tube are made with return-lips *c* at the ends, which interlock together and are soldered. In each side plate there is a long deep recess or cavity formed by pressing the sheet metal between dies. This recess is rather deeper than a half-circle sectionally, and there are openings at the ends for the reception of the bearings *e e'*, and *f*. The bearings *e e'* are tubular with closed ends. The bearing *f* is an open tube. All the bearings are soldered into place.

The wick-raising wheels *g g* are upon the shaft *h*, which shaft passes through the open bearing *f*, and the end is received into the closed bearing *e'*. There is a thumb or hand wheel, *k*, at the outer end of the shaft *h*, by which the shaft and wick-raisers can be rotated in raising or lowering the wick.

The roller *l* is provided with pivots *o* at its ends entering the tubular bearings *e e'*. This roller *l* is within the recess or housing in the side *a* of the wick-tube, and it forms a guide to the wick and keeps it flat and properly in place, and lessens friction as the wick-raisers act upon the wick to move the same.

The tubular bearings *e e' f* form reliable supports for the respective shafts or pivots, and they wear longer and create less friction than the sheet-metal edge of the housing heretofore made use of.

I remark that the roller and the wick-raisers and wheels will usually be put into their respective places before the two halves *a b* of the wick-tube are put together and soldered.

I do not herein lay claim to any of the separate portions of the wick-tube nor to any of the devices set forth in my application filed February 10, 1882, Serial No. 52,311, and in application filed January 12, 1882, Serial No. 49,937.

I claim as my invention—

1. The combination, in a wick-tube for oil-stoves, of two separate side pieces, *a b*, each of which is provided with a housing struck up in the sheet metal, a shaft, wick-raising wheels, and a thumb-wheel on such shaft, and a roller in the recess opposite to the wick-raisers, such roller extending nearly the length of the recess and guiding the wick, substantially as set forth.

2. A wick-tube made of two plates clasped together at the ends, each having a deep recessed housing, in combination with the wick-raising shaft and wheels, and a roller and separate tubular bearings introduced into holes at the ends of the housings and secured in place, substantially as set forth.

Signed by me this 8th day of February, A. D. 1884.

L. J. ATWOOD.

Witnesses:

R. T. LATTIN,
A. E. FOGG.