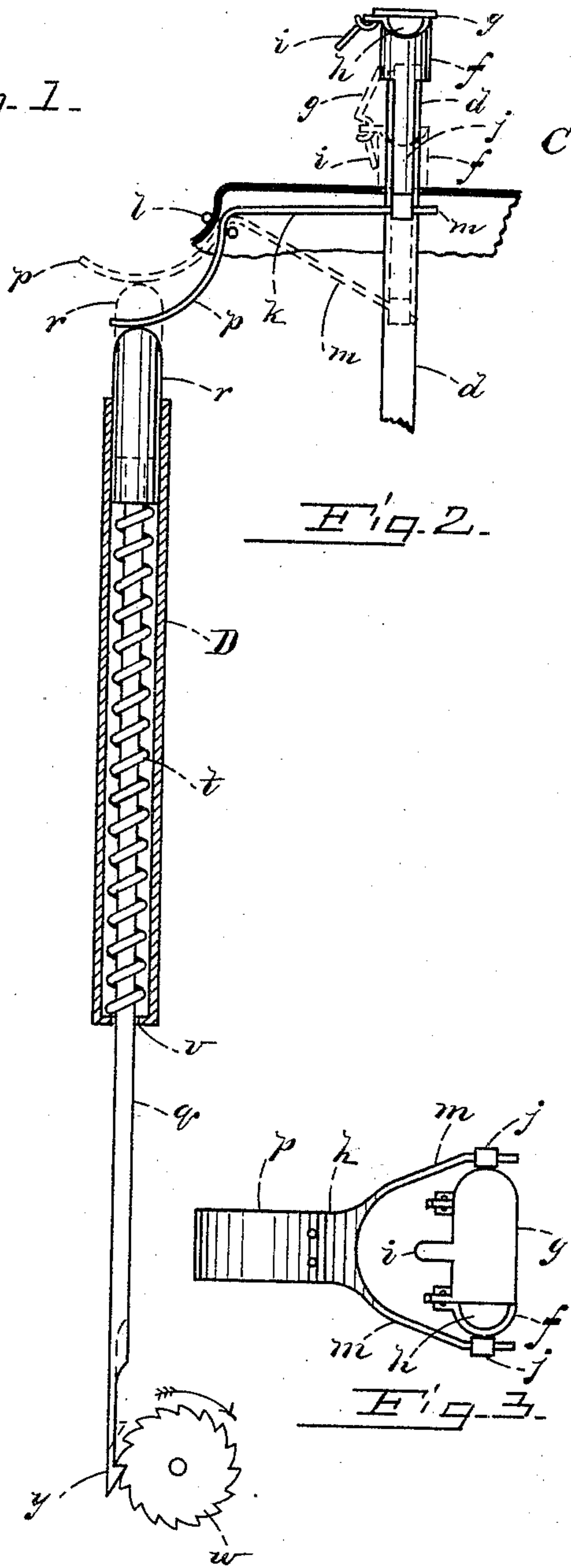
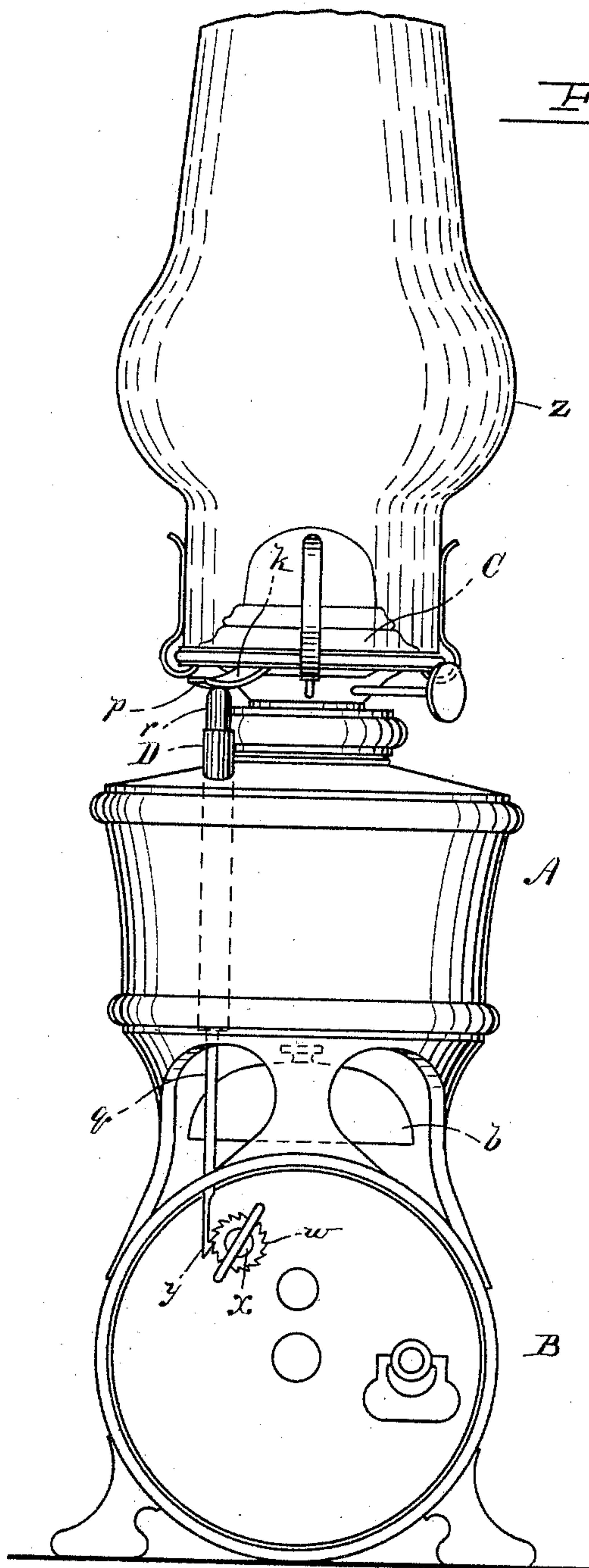


(No Model.)

W. GAERTNER.  
COMBINED LAMP AND ALARM CLOCK.

No. 436,456.

Patented Sept. 16, 1890.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

WILLIAM GAERTNER, OF BOSTON, MASSACHUSETTS.

## COMBINED LAMP AND ALARM-CLOCK.

SPECIFICATION forming part of Letters Patent No. 436,456, dated September 16, 1890.

Application filed April 30, 1890. Serial No. 350,030. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM GAERTNER, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in a Combined Lamp and Alarm-Clock, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a rear elevation of my improved lamp and clock; Fig. 2, a sectional elevation of the connecting mechanism, and Fig. 3 a top plan view of the wick-sleeve and attachments.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to a combined lamp, alarm-clock, and connecting mechanism whereby the flame of the lamp may be automatically increased at a determined hour; and it consists in certain novel features, hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body of the lamp, and B the alarm-clock, these parts being of the ordinary form, excepting as hereinafter specified. The clock is preferably circular in form, and the lamp A is mounted on the top thereof, the alarm-bell *b* on the clock being disposed between the legs of the lamp. On the ordinary wick-tube *d* of the lamp-burner C a sleeve *f* is fitted to slide vertically. At one side of the top of said sleeve a lid or cap *g* is hinged, said cap being adapted to close the sleeve-top, excepting a small portion *h* at one corner thereof. The cap is fitted to fall of its own weight and close the top of the sleeve, and a stop *i* at the hinge edge of said cap prevents it from being thrown into a vertical plane. At each side of the wick-tube *d* the sleeve *f* is provided with a downwardly-

projecting arm *j*. A forked lever *k* is pivoted at *l* to the lamp-burner, its arms *m* being respectively pivoted to the sleeve-arms *j*. The opposite arm *p* of said lever is curved outwardly and projects beyond the burner C, as shown in Fig. 1. Passing vertically through the body of the lamp there is a tube D. A spindle *q* is fitted to slide vertically in said tube, and is provided on its upper end with a head *r*, which is adapted to engage the lever-arm *p*. A coiled spring *t* is disposed around the spindle within the tube between the head *r* and bottom *v* of said tube, said spring acting expansively to force said head upward against the lever *p* and draw the sleeve *f* downward over the wick-tube. A ratchet *w* is secured on the alarm-shaft *x* of the clock B outside the case, as shown in Fig. 1. The spindle *q* is provided on its lower end with a hook *y*, adapted to engage said ratchet.

In the use of my improvement, after the alarm of the clock B is wound the spindle *q* is drawn downward and its hook *y* engaged on the ratchet *w*. The lamp is then lighted and the sleeve *f*, with its cap *g*, disposed in position, (shown in Fig. 2,) which permits a slight portion of the wick at its corner to burn through the opening *h* in said sleeve, the lever-arm *p* being at the same time in engagement with the spindle-head *r*. When the alarm is released by the clock mechanism in the ordinary manner, the ratchet *w* is rotated by the shaft *x*, releasing the spindle *q* therefrom. The spring *t* at once forces said spindle upward, and its head *r* elevates the lever-arms *p*, drawing the sleeve *f*, pivoted to the opposite arm *m* thereof, downward over the wick-tube and carrying the cap *g* into a vertical position, as shown by dotted lines in Fig. 2. The lamp-wick is thus permitted to ignite across its top from the small portion burning in the opening *h* of the sleeve, as described. The lamp-chimney *z* prevents said burning portion from being accidentally extinguished until the mechanism described is released by the alarm-clock.

Having thus explained my invention, what I claim is—

1. The lamp and clock, in combination with a sleeve fitted to slide on the wick-tube, a



hinged lid on said sleeve, a lever pivoted to said sleeve and to the lamp-top, and a spring-actuated plunger adapted to be released by the clock-alarm mechanism and engage said lever, substantially as described.

2. The combination of an alarm-clock, a lamp mounted thereon, a sleeve fitted to slide on the lamp-tube, a hinged lid adapted to partially close said sleeve, and mechanism connecting the sleeve with the clock-alarm mechanism and adapted to be released thereby, substantially as described.

3. The combination of an alarm-clock, a lamp mounted thereon, a sleeve and lid on the wick-tube for partially extinguishing the flame, a ratchet on the alarm-shaft, a spring-actuated plunger in said lamp having a hook for engaging said ratchet, and a lever pivoted to said sleeve in position to be engaged by the plunger, substantially as and for the purpose specified.

4. The clock B, provided with the ratchet *w*, in combination with the lamp A, provided with the sleeve *f* and lever *k*, and the spring-actuated spindle *q*, mounted in the lamp-body

and provided with a hook *y* for engaging said ratchet, substantially as described.

5. The alarm-clock B, provided with the ratchet *w*, in combination with the lamp A, provided with the sleeve *f* on its wick-tube, the hinged lid *g*, the lever *k*, pivoted to said sleeve, and the spring-actuated spindle *q*, mounted in the lamp-body and provided with a hook *y*, substantially as and for the purpose set forth.

6. The lamp C, in combination with the sleeve *f*, fitted to slide on the wick-tube and provided with the opening *h*, and the hinged gravity-lid *g* on said sleeve, substantially as described.

7. The lamp C, provided with the sleeve *f*, having the opening *h* and gravity-cap *g*, in combination with the alarm-clock B, and mechanism adapted to be released by the alarm mechanism for lowering said sleeve and opening the cap, substantially as described.

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Witnesses:

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