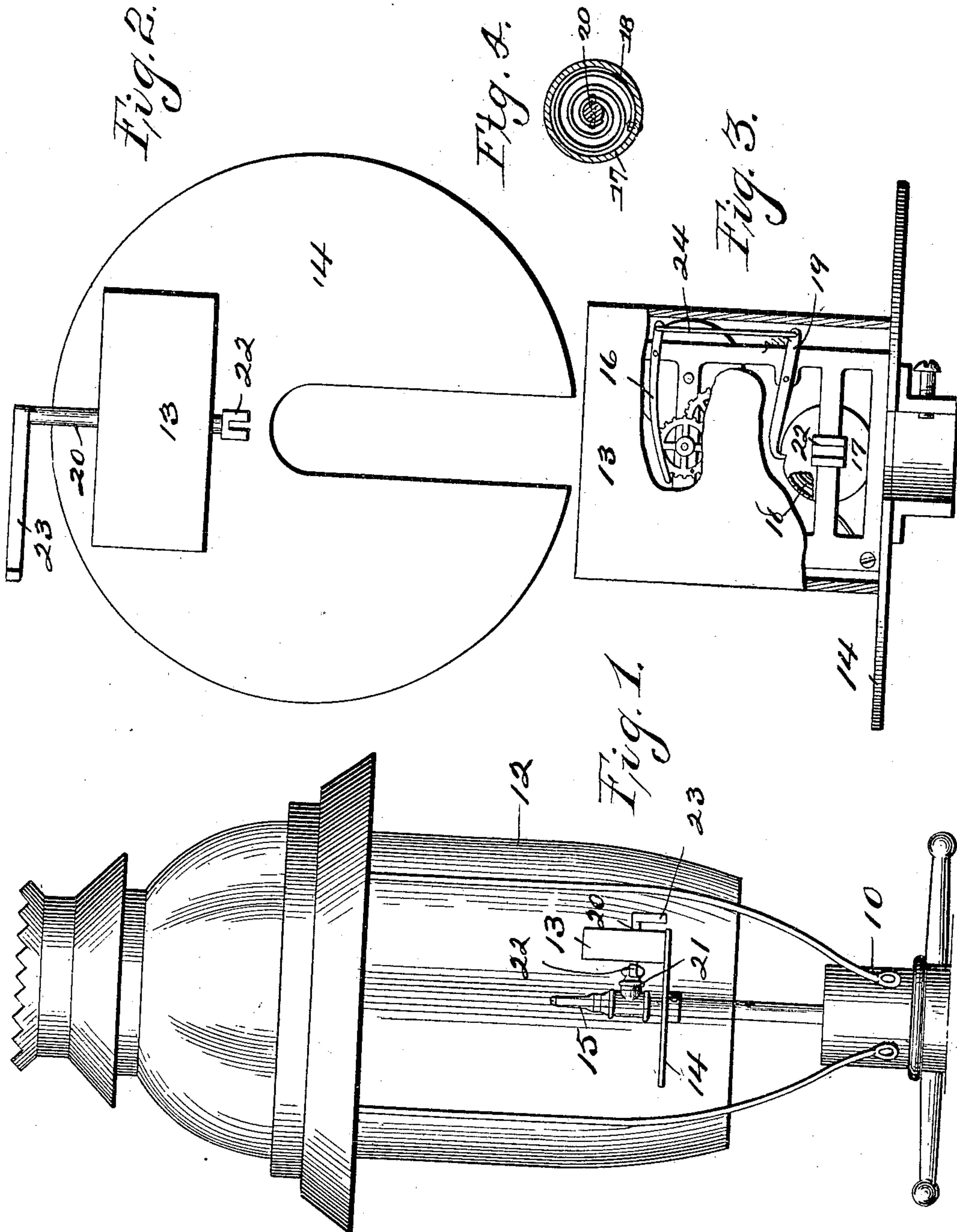


No. 825,491.

PATENTED JULY 10, 1906.

W. E. SEWELL & H. A. TRUSSEL.
TIME LIGHT EXTINGUISHER.

APPLICATION FILED FEB. 13, 1905.



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UNITED STATES PATENT OFFICE.

WARD E. SEWELL AND HERMAN A. TRUSSEL, OF BAXTER, IOWA.

TIME LIGHT-EXTINGUISHER.

No. 825,491.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed February 13, 1905. Serial No. 245,557.

To all whom it may concern:

Be it known that we, WARD E. SEWELL and HERMAN A. TRUSSEL, citizens of the United States, residing at Baxter, in the county of Jasper and State of Iowa, have invented a new and useful Automatic Lamp-Extinguisher, of which the following is a specification.

Our object is to save the time and labor required in going about a town or city to extinguish street-lamps by manual effort and to extinguish a lamp by automatic mechanism at any predetermined time by simply adjusting the mechanism as required to act at the time desired.

Our invention consists in the arrangement and combination of an alarm-clock and a trip device with a lamp, as hereinafter set forth, pointed out in our claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows our invention applied to a lamp as required for practical operation. Fig. 2 is an enlarged top view of the base upon which the clock and trip mechanism is mounted and adapted to be detachably fixed to a burner, as shown in Fig. 1. Fig. 3 is a side view of the clock-case from which parts are broken away to disclose the trip mechanism combined with the clock mechanism and the valve connected with the gas-burner to stop the flow of gas as required to automatically extinguish the light at the time designated by the adjustment of the clock. Fig. 4 is a detail view that shows a spring in a barrel fixed to the barrel and to an arbor extended through the barrel.

The numeral 10 designates a lamp-post, and 12 a street-lamp. An alarm-clock case 13 is fixed to a base 14, and the clock-case is fixed on top of the base, and the base is detachably fixed to a burner 15, as shown in Fig. 1, or in any suitable way. A lever 16 is fulcrumed to the clock-frame inside of the clock-case and extends out horizontally. A stud *a* on one of the clock-wheels engages the inner arm of the lever at a given time designated by the adjustment of the alarm mechanism of the clock as required to actuate the trip mechanism that will turn the valve that stops the flow of gas as required to extinguish the lamp-light.

The trip mechanism is fixed in the lower end of the frame of the clock mechanism, as shown in Fig. 3, or in any suitable manner, and consists of a barrel 17, a spring 18, fixed in

the barrel, a trip-lever 19, fulcrumed to the clock-frame, as shown in Fig. 3, an arbor 20, journaled in the barrel to extend toward the lamp-burner valve 21 and provided with a forked arm 22 on its end to engage the valve, as shown in Fig. 1, or in any suitable way, so that the rotary motion of the arbor will turn the valve as required to stop the flow of gas and to extinguish the light. The spring 18 is fixed to the arbor 20 and to the barrel 17, and an arm 23 on the end of the arbor outside of the case is used as required for turning the arbor and storing power in the spring. The trip-lever 19 and the short arm of the lever 16 are pivotally connected by a link 24. The trip-lever has a hook on its end to engage a notch in the barrel 17, as shown in Fig. 3, and, as required, to retain the power stored in the spring until the time designated by the alarm-clock when the lever 16 is to be actuated to press down on the link 24, connected with the end of said lever and the arm of the trip-lever 19 as required to release said lever from the notch in the barrel 17, so that the power stored in the spring 18 will be released to turn the arbor 20.

In the practical use of our invention it is obvious that when a person lights a lamp he can connect the lever 19 with the notch in the barrel 17, and thereby retain the power stored in the spring 18, and then also adjust the alarm-clock as required to be actuated at the predetermined time when it is to operate the lever 16 as required to press down the arm of the trip-lever 19 to free it from the notch in the barrel 17, and thereby release the power stored in the spring 20 to be applied in turning the arbor 20 and the valve 21 as required to automatically extinguish the lamp. The base 14 is provided with an open slot and a flange 26 to facilitate fastening it to the burner 21 by a set-screw 27, as shown in Fig. 1.

Having thus set forth the purpose of our invention and its construction and manner of use, the practical operation and utility thereof will be readily understood by persons familiar with alarm-clocks and street-lamps.

What we claim as new, and desire to secure by Letters Patent, is—

1. In an automatic lamp-extinguisher, a clock-case, a frame in the case, a barrel having a notch, an arbor journaled in the barrel, a spring fixed in the barrel and to the arbor, an arm on the end of the arbor on the outside of the case, a lever fulcrumed to the clock-

frame near its top, a clock-wheel having a stud to engage said lever, arranged and combined to operate in the manner set forth, for the purposes stated.

5 2. In an automatic lamp-extinguisher, a clock-case, a frame in the case, a barrel having a notch fixed in the case, an arbor journaled in the barrel, a spring fixed to the barrel and to the arbor, an arm on the end of the arbor
10 on the outside of the case, a lever fulcrumed to the clock-frame near its top, a clock-wheel having a stud, a trip-lever fulcrumed to the lower part of the clock-frame, a hook on the end of said lever, clockwork mechanism in the case and means for fixing the
15 clock-case to the burner of the lamp, arranged and combined to operate in the manner set forth, for the purposes stated.

3. In an automatic lamp-extinguisher, a
20 clock-case, a frame in the case, a barrel for a spring fixed in the case and provided with a notch, an arbor journaled in the barrel, a spring fixed in the barrel and to the arbor, an arm on the end of the arbor on the outside
25 of the case, a lever fulcrumed to the frame near its top, a clock-wheel having a stud, a

strip-lever fulcrumed to the lower part of the frame to engage said lever, and a base having a slot fixed to the bottom of the clock-case, arranged and combined to operate in the
30 manner set forth, for the purposes stated.

4. An automatic lamp-extinguisher comprising a clock, a case located in the lamp, a frame in the case, a barrel in the frame provided with a notch, an arbor in the barrel
35 connected with the valve of a lamp-burner, a spring in the barrel fixed to the arbor and the barrel, an arm on the end of the arbor, a trip-lever, a lever pivoted to the frame above the trip-lever to engage a stud on a clock-
40 wheel, a clock-wheel having a stud, a rod pivotally connected with the outer ends of the two levers and the trip-lever provided with a hook to engage the notch in the barrel, arranged and combined to operate in the
45 manner set forth, for the purposes stated.

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