May 31, 1932. M. ROTHMAN ET AL 1,861,243

FIRE ALARM AND PHOTOGRAPHIC DEVICE

Filed April 15, 1929 2 Sheets-Sheet 1

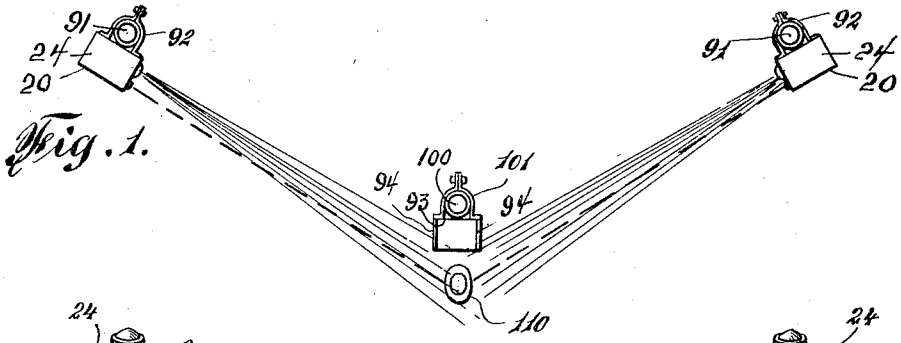


Fig. 1.

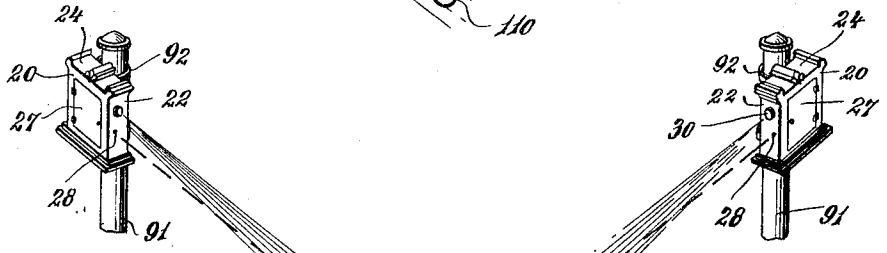


Fig. 2.

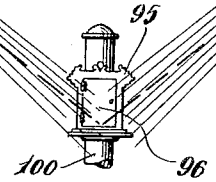
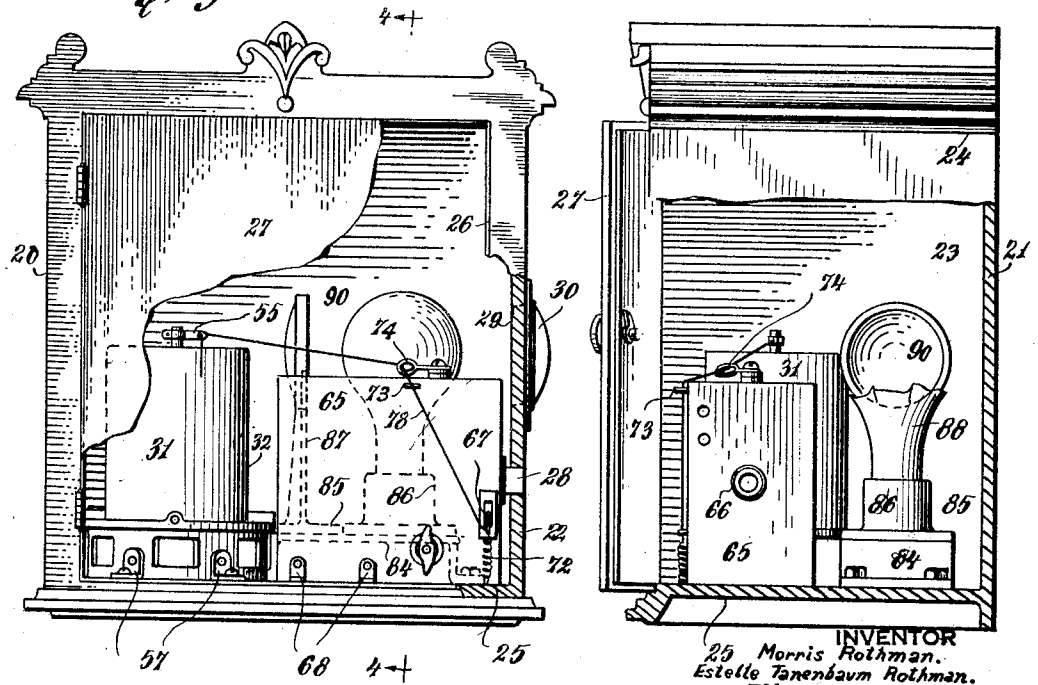


Fig. 3.

Fig. 4



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Filed April 15, 1929 2 Sheets-Sheet 2

Fig. 5.

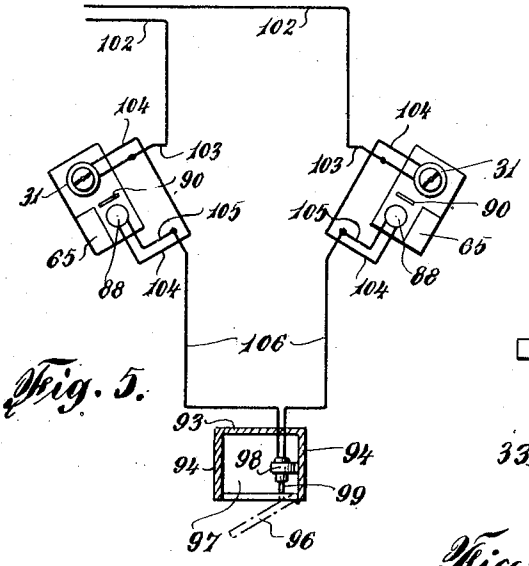


Fig. 7.

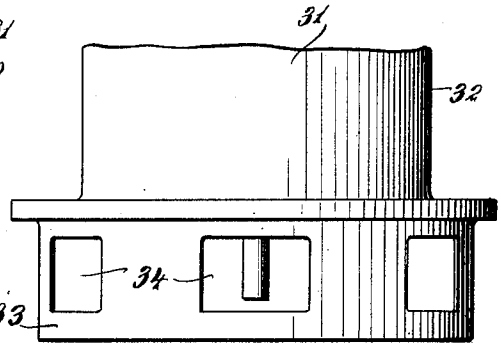


Fig. 8.

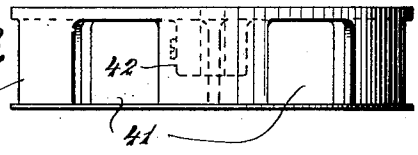


Fig. 6.

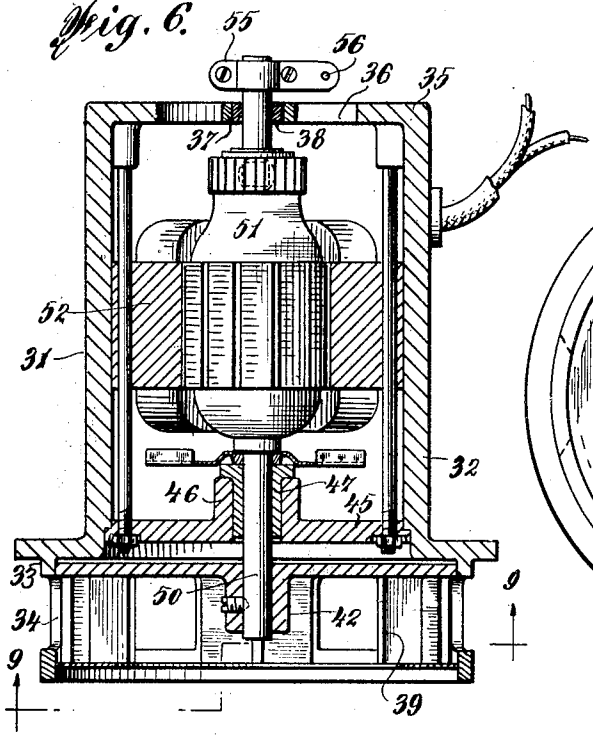
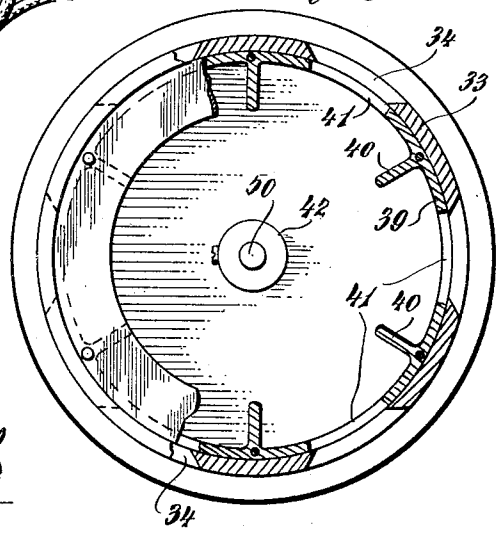


Fig. 9.



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UNITED STATES PATENT OFFICE

MORRIS ROTHMAN AND ESTELLE TANENBAUM ROTHMAN, OF BAYONNE, NEW JERSEY

FIRE ALARM AND PHOTOGRAPHIC DEVICE

Application filed April 15, 1929. Serial No. 355,344.

This invention relates to improved fire alarm signal and photographic devices.

The object of the invention is the production of devices which will simultaneously produce a signal and photograph a person operating a fire alarm signal box. The second object of the invention is the production of a fire alarm signal and photographic devices, having electric appurtenances which can be easily connected in electric circuit with existing fire alarm signal boxes. The third object of the invention is the production of fire alarm signal and photographic devices, which can be simultaneously focused on a person operating a fire alarm signal box. Other objects will be apparent from the following description.

In the accompanying drawings Fig. 1 represents a top plan view of a pair of the fire alarm signal and photographic devices and a fire alarm signal box; Fig. 2 shows a front view of Fig. 1; Fig. 3 indicates an enlarged front view of one of the devices having a portion thereof broken away; Fig. 4 represents a right hand side view and partial section of Fig. 3 on the line 4, 4; Fig. 5 represents a diagrammatic plan view of a pair of the fire alarm signal and photographic devices, the fire alarm signal box and a wiring diagram; Fig. 6 shows a vertical axial section of the siren of the device with portions in full lines; Fig. 7 indicates an outside view of the lower portion of Fig. 6; Fig. 8 represents an elevation of a detail of the siren and Fig. 9 shows a bottom plan view and section of Fig. 6 on the line 9, 9.

Each of the improved devices comprises a casing having the front wall 20, the rear wall 21, the side walls 22, 23, the top wall 24 and the bottom wall 25. The front wall 20 has an opening 26 for the door 27. In the side wall 22 is formed an opening 28 for the camera to be described and an opening 29 for the lens 30.

Within the casing is secured a siren indicated in its entirety by the numeral 31. The said siren in this instance comprises essentially a cylindrical housing 32, with the enlarged lower portion 33 having the openings 34.

The top wall of the siren is shown at 35 with the openings 36 and the hub 37 with the bushing 38. A propeller wheel 39 having the blades 40, the openings 41 and the hub 42 is located in the lower portion 33 of the housing 32. A supporting disc 45 having the hollow boss 46 is detachably supported in the housing 32. A bushing 47 is located in boss 46. An electric motor in the siren comprises the armature shaft 50, which extends through the bushing 47 and has its lower end fastened to the hub 42. The upper end of the shaft 50 extends through the bushing 38. The armature of the motor is shown at 51 and the field at 52. To the upper end of the armature shaft 50 is fastened the crank 55 with the opening 56. The lower portion 33 of the siren is supported on the bottom wall 25 of the casing and is fastened thereto by means of the knee brackets 57.

Adjacent to the siren is located in the casing of the devices, in this instance, the photographic camera designated in its entirety by the numeral 65. The lens of the camera is shown at 66 and the lever operating the shutter of the camera is shown at 67. The camera 65 is supported on the bottom wall 25 and fastened thereto by means of the knee brackets 68. A spring 72 has one end fastened to the lever 67 and the other end thereof is fastened to the wall 25. A pair of eyelets 73 and 74 extend from the casing of the camera. A string 78 has one end fastened to the lever 67, passes through the eyelets 73 and 74 and then through the opening 56 of the crank 55. The opening 56 and the diameter of the string 78 are such that the string 78 is in frictional engagement with the said opening 56. A loop 79 is preferably made with the end of the string 78.

A supporting bracket 84 is supported upon and fastened to the wall 25 of the casing of each device. A bracket having the foot plate 85 is fastened to the bracket 84 and has formed therewith the socket support 86 and the standard 87. The socket support 86 has detachably connected thereto the socket of the electric light bulb 88, and the standard 87 supports the concaved light reflector 90.

Each of the casings having the doors 27 is

supported on a pole 91 by means of straps 92 and the like in a somewhat inclined position. A fire alarm signal box is indicated with the rear wall 93, the side walls 94, the front wall 95 having an opening for the door 96 and the bottom wall 97. An electric switch 98 having an operating pin 99 is fastened to one of the walls 94. The operating pin 99 may be of a length to bear against the inner face of the door 96, when the latter is in its closed position. It will be noted that the alarm signal and photographic devices having the doors 27 are spaced from and on opposite sides of the fire alarm box having the door 96, and that the fire alarm box in this instance is on a lower level than said devices. The fire alarm box is fastened to a pole 100 by means of straps 101.

A pair of main wires 102 lead from a source of electric current. A branch wire 103 extends from each of the wires 102 and leads to the field 52 of the electric motor of the siren. A wire 104 leads from each field in the usual way and extends to the electric light bulb 88. A branch wire 105 extends from each electric light bulb 88. Wires 106 connect with the wires 105 and lead to the electric switch 98.

To use the invention the operator opens the door 96 of the fire alarm signal box, and thereby the switch 98 closes the electric circuit of the various appurtenances of the invention. With other switches the operator may pull or press an operating element like the pin 99 to close said electric circuit.

When said circuit is closed the electric motor of the siren 31 rotates and the usual sound signals are produced. With the rotation of the armature shaft 50 of the electric motor of the siren, the crank 55 turns, and thereby the string 78 pulls up and opens the shutter of the camera 65 and two pictures are photographed of the person indicated having the hat 110, operating the fire alarm signal box having the door 96. After the armature shaft 50 of the electric motor of the siren has made a little less than one half of a revolution, the string 78 is of a length to be completely pulled through the opening 56 of the crank 55. It will be noted that the casings having the doors 27 are inclined relatively to the casing of the fire alarm signal box, having the door 96.

Various changes may be made in the invention and the present exemplification is to be taken as illustrative and not limitative thereof.

Having described our invention what we desire to secure by Letters Patent and claim is:

In combination, a box, an audible signal positioned in said box, an electric motor connected to said signal to operate the latter, a crank having an opening fastened to the armature shaft of said electric motor, an electric light bulb positioned in said box, a camera positioned in said box, a string extending from the lever of the shutter of the camera and passing through the opening of said crank and in frictional engagement with the wall of said opening of said crank, said string pulling up and opening said shutter after said crank has revolved a little less than one half of a revolution, said string of a length to be completely pulled through said opening after said crank has revolved a little less than one half of a revolution to automatically disconnect the camera from said crank, an electric circuit for the electric appurtenances in said box and means to close said circuit.

Signed at Bayonne, in the county of Hudson and State of New Jersey, this 10th day of April, A. D. 1929.

MORRIS ROTHMAN.
ESTELLE TANENBAUM ROTHMAN.