

(No Model.)

A. B. GOODRICH.
WATCHMAN'S TIME RECORDER.

No. 261,149.

Patented July 18, 1882.

Fig. 1.

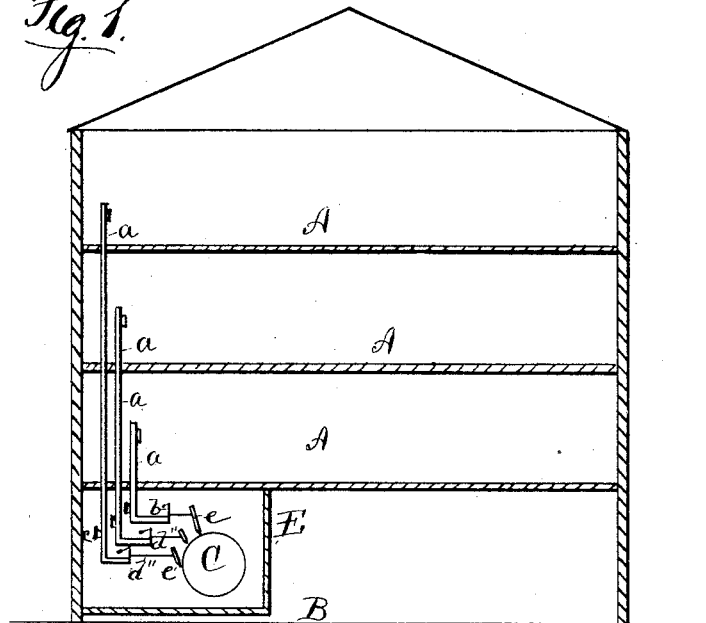


Fig. 2.

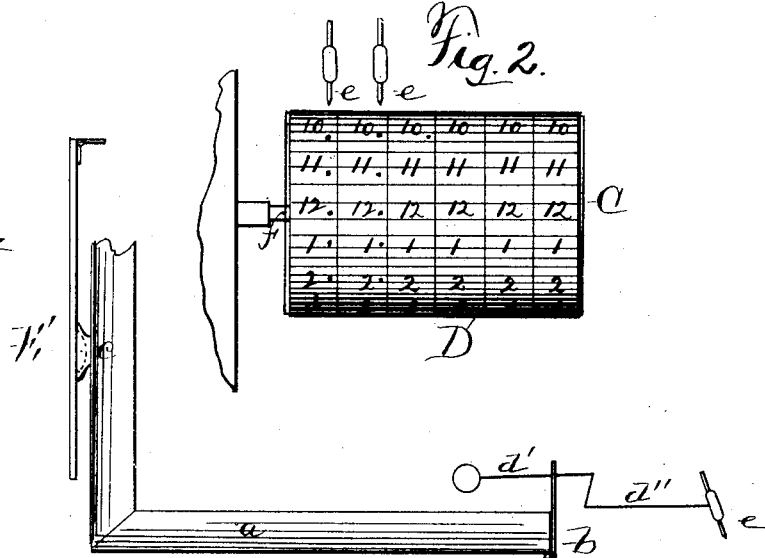
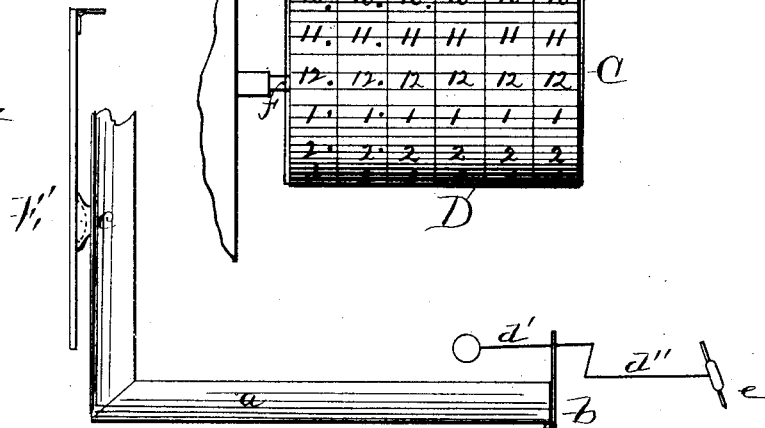


Fig. 3.



Witnesses:
D. K. Parsons.
C. H. Killogg.

A. B. Goodrich
Inventor, by
J. R. Drake,
Att'y

UNITED STATES PATENT OFFICE.

ALFRED B. GOODRICH, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF
TO WILLIAM J. BEYER, OF SAME PLACE.

WATCHMAN'S TIME-RECORDER.

SPECIFICATION forming part of Letters Patent No. 261,149, dated July 18, 1882.

Application filed April 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALFRED B. GOODRICH, a citizen of the United States, residing at Buffalo, county of Erie, and State of New York, have made certain Improvements in Night-Watchmen Detectors, of which the following is a specification.

This device is for the purpose of insuring that night-watchmen in factories, hotels, manufacturing, &c., make a periodical visit to each and all rooms or stories in such buildings, and record the time of visit on a device provided for that purpose, so that in the morning the proper person can discover if the watchman has properly performed his duties. Such devices are already in use, but are somewhat expensive and complicated.

My invention consists in its simplicity, but mainly in utilizing the usual speaking-tubes running through the different rooms or stories of a building and connecting therewith a simple recording device, which by merely using these tubes pneumatically (blowing therein) will make such record by a pen, pencil, or pricking-point striking a roll of paper moved by clock-work, all as hereinafter fully explained.

In the drawings, Figure 1 is a longitudinal vertical section through a building, showing my device therein. Fig. 2 is a detail of the drum carrying the paper, &c.; Fig. 3, detail of the speaking-tube end, showing the hinged flap and weighted arm holding the pen.

A A A represent the stories of a building, having speaking-tubes *a a a* running from each story to an office, B, as is usual in many business-houses, &c. My great improvement is to utilize these tubes or pipes for recording purposes, as follows: The lower end of each speaking-tube is provided with a vertical flap, *b*, hinged at the bottom to the pipe, thus closing temporarily that opening, which is additional to the one *c*, used for speaking and whistling through, which is situated at some convenient part of the tube, as shown in Figs. 1 and 3. The flap *b* is kept closed by a weighted rod, *d'*; or a fine spring attached to top of flap and to the tube may be employed. The rod *d'* is elongated into an arm, *d''*, its end

holding a writing-tube, pencil, or pricking-point, *e*, as shown. All the mouths of the speaking-tubes in the office are thus provided, and these marking devices stand just over a barrel, C, revolved by ordinary clock-work, (not shown,) said barrel setting on the hour-hand spindle *f* thereof, which is made long enough at the back for that purpose. Around and over the surface of this barrel is set a paper, D, which is ruled around in as many lines or spaces left as there are stories or speaking-tubes in the building, each space between the lines marked off into hours, halves, quarters, or other subdivisions, as desired, or to correspond with those on a clock-dial.

At, say, 6 o'clock p. m. the clock and barrel are started at that hour. The watchman, making his rounds, goes to the speaking-tube in each room or story and blows into the mouth-piece of the tube in each room. This throws forward the hinged flap *b*, and with it the marking device *e*, which strikes the paper D on the barrel C, making a dot thereon, as shown in Fig. 2. The flap is immediately thrown back by the counter-balance *d'*, which closes the pipe-opening, ready for the next visit and record. The operation of one is that of each and all, each pipe having its own recording device held over the paper of the drum, as explained. The mouth of these tubes *a a a*, with the flap and pen, the clock-work, and the usual mouth-pieces and whistle, are all inclosed in a case, E, which is locked at night and only opened in the morning for examination by the proper person to see that the spaces for hours or other subdivisions are marked by the automatic pen *e*. The back or side E' of this case E is hinged and provided inside with pads or gags, which fit closely into the usual mouth-piece, *c*, of the speaking-tubes, so as to prevent the wind escaping through them or the record being tampered with by them. In the day-time this end E' is raised, leaving the mouth-pieces exposed for their appropriate use.

I claim—

1. In combination with the speaking-tubes *a a a* of a building, &c., the flap *b*, hinged to the mouth of each tube, with an attached arm, *d''*, having a recording-instrument, *e*, at one

end, and provided with a spring or counter-balance, *d'*, at the other end, all substantially as and for the purpose specified.

2. In combination with the pipes *a a*, flaps
5 *b*, arms *d' d''*, and pen *e*, the paper *D*, divided into time-spaces and set around a drum, *C*, which is revolved by suitable clock-work, all substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

A. B. GOODRICH.

Witnesses:

J. R. DRAKE,

C. H. KELLOGG.