C. H. SMITH.
Alarm-Bell.

No. 210,974. Patented Dec. 17, 1878.

Fig: 1.

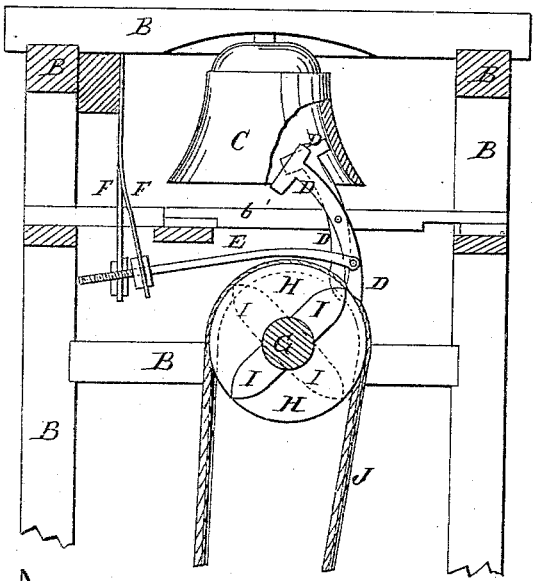
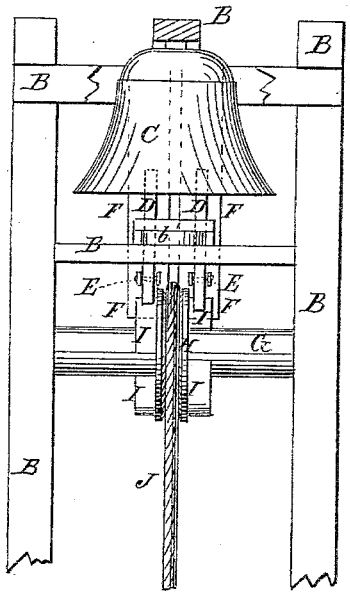
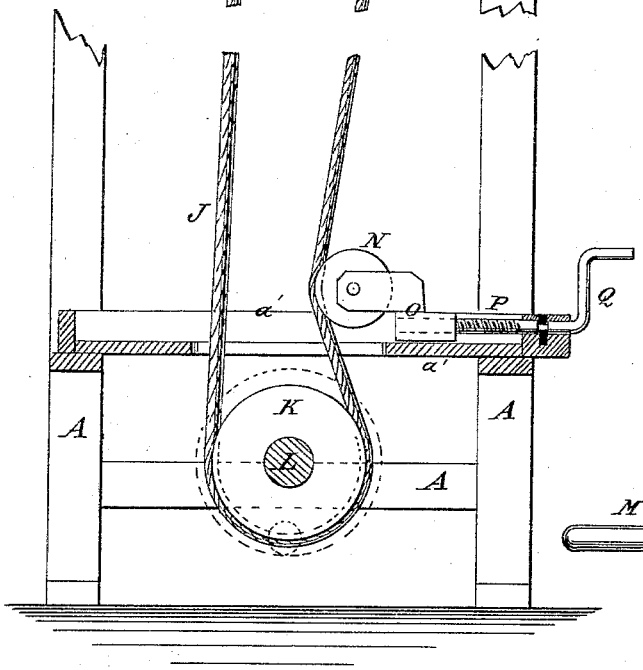
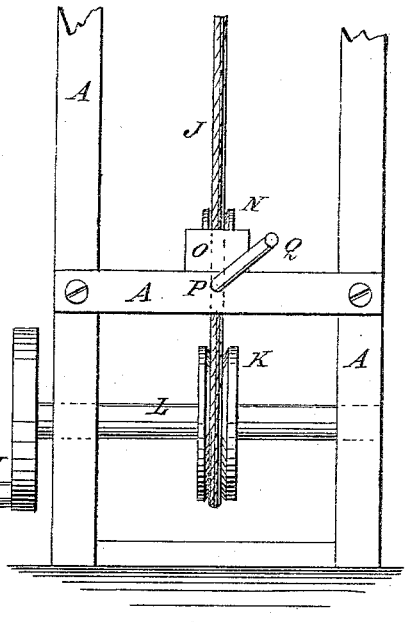


Fig: 2.







WITNESSES:

Chas. Nida.
C. Sedgwick

INVENTOR:
C. H. Smith
BY Munn & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLEY H. SMITH, OF DELPHOS, OHIO.

IMPROVEMENT IN ALARM-BELLS.

Specification forming part of Letters Patent No. **210,974**, dated December 17, 1878; application filed October 28, 1878.

To all whom it may concern:

Be it known that I, CHARLEY H. SMITH, of Delphos, in the county of Van Wert and State of Ohio, have invented a new and useful Improvement in Fire-Alarms, of which the following is a specification:

Figure 1 is a side view of my improved device, the frame-work being shown in section, and part being broken away to show the construction. Fig. 2 is a front view of the same, part of the frame-work being broken away.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved fire-alarm which shall be simple in construction and easily and conveniently operated.

A represents a frame secured in or forming a part of the lower story of an engine-house, fire-tower, or other building. B represents a frame-work secured in or forming a part of the belfry of an engine-house, fire-tower, or other building. To the upper part of the frame B is attached a bell, C. D are two bell-hammers, the handles of which pass down through and are pivoted to a timber, *b'*, secured to the middle part of the frame B.

To the handles of the hammers D, a little above their lower ends, are pivoted the ends of two bars, E, the outer ends of which have screw-threads formed upon them, pass through the lower ends of the springs F, and are secured in place by nuts screwed upon them, so that they may be adjusted to regulate the blows of the hammers D, as may be desired.

In bearings attached to the frame B revolves a shaft, G, to which is attached a wheel, H, directly beneath the bell C, and between the lower ends of the handles of the bell-hammers D.

To the sides of the wheel H are attached four pins or blocks, I, two to each side, and in such positions that the four pins or blocks may be equally distant from each other, so that the two bell-hammers may be operated alternately and at equal intervals of time.

Around the wheel H passes a wire, cord, or other band, J, which also passes around a wheel, K, attached to a shaft, L. The shaft L works in bearings attached to the frame-work A, and to one of its journals is attached a crank-wheel, M, by means of which the alarm is operated.

Against the band J rests a wheel, N, which is pivoted to a block, O, sliding in ways *a'*, attached to the frame A. In the block O is formed a screw-hole, or to it is attached a nut to receive the screw P, which is swiveled to the frame A, and has a crank, Q, formed upon or attached to its outer end, by means of which it is operated.

With this construction, by turning the crank M the hammers D will be drawn back from the bell C alternately and at equal intervals by the pins or blocks I, and when released from the said pins or blocks will be thrown forward by the action of the springs F, striking the bell with strong sharp blows.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, in a frame, A B, with the bell C, of the two hammers D, pivoted to timber *b'*, the two end-pivoted bars E, passing through the lower ends of springs F, the rotary shaft G, having wheel H, with two pins, I, on each side, and the band J, connecting wheel H with a pulley on the crank-shaft L, as and for the purpose specified.

CHARLEY H. SMITH.

Witnesses:
C. C. MARSHALL,
HENRY LINDEMANN.