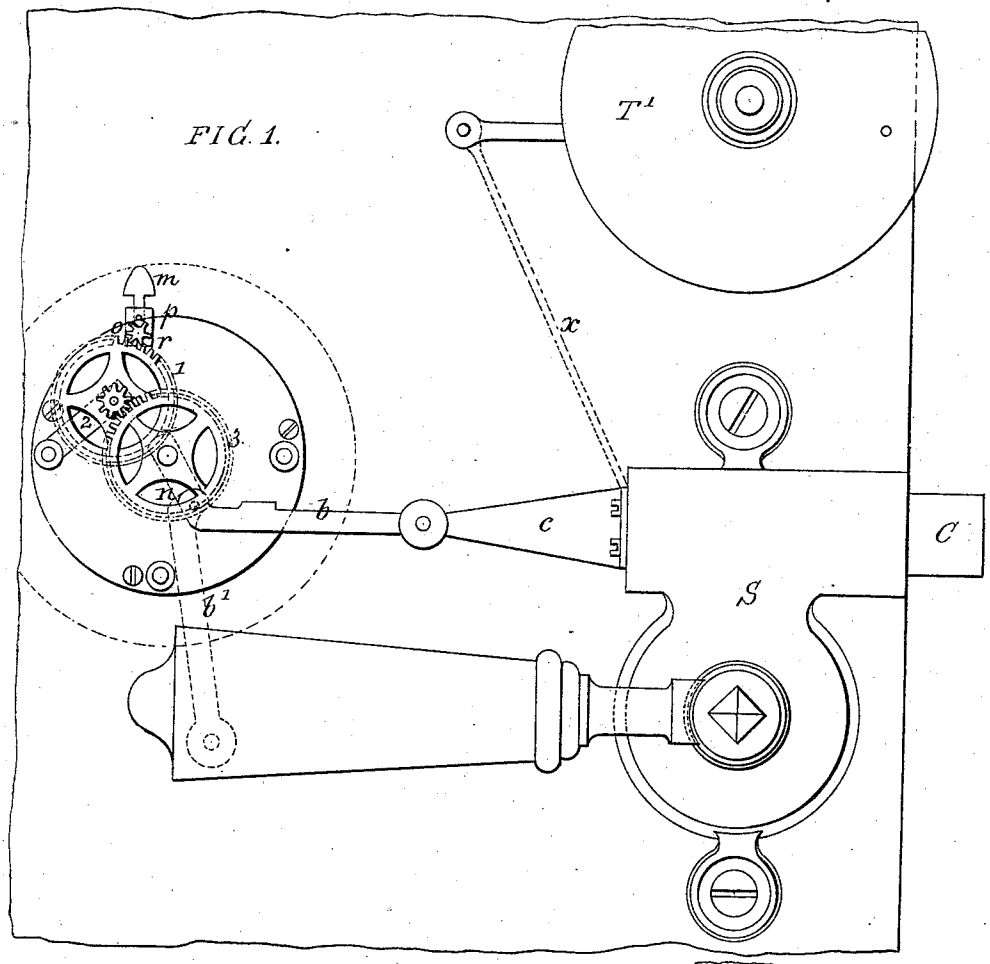
(No Model.) 2 Sheets—Sheet 1.

E. J. MASSERON.

ALARM LOCK.

No. 279,409. Patented June 12, 1883.

FIG. 1.



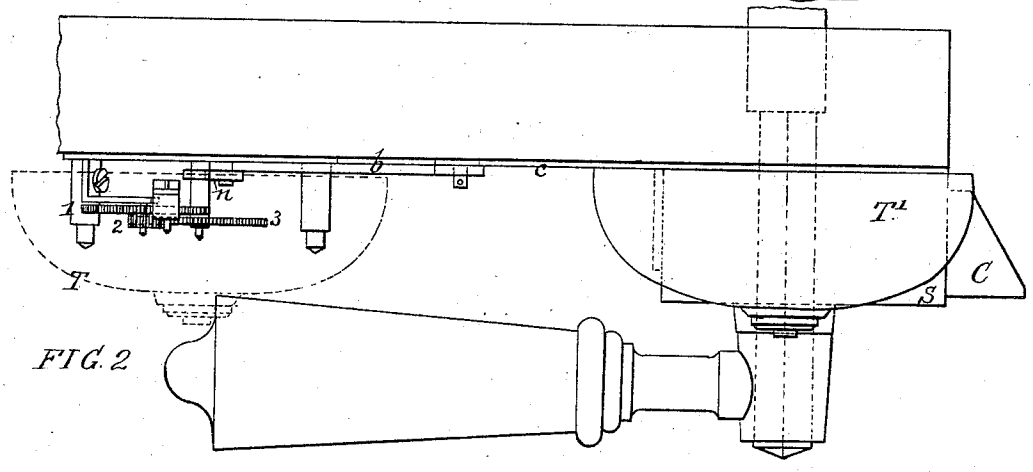


FIG. 2

WITNESSES:
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N. PETERS. Photo-Lithographer, Washington, D. C.

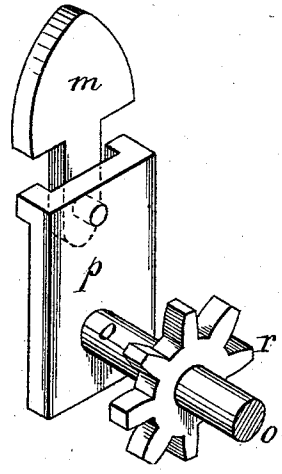
(No Model.) 2 Sheets—Sheet 2.

E. J. MASSERON.

ALARM LOCK.

No. 279,409. Patented June 12, 1883.

FIG. 3.



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UNITED STATES PATENT OFFICE.

EDOUARD J. MASSERON, OF PARIS, FRANCE.

ALARM-LOCK.

SPECIFICATION forming part of Letters Patent No. 279,409, dated June 12, 1883.

Application filed December 4, 1882. (No model.) Patented in France July 18, 1882, No. 150,155; in England October 27, 1882, No. 5,124; in Austria October 28, 1882, and in Germany October 30, 1882.

To all whom it may concern:

Be it known that I, EDOUARD JULIEN MASSERON, a citizen of the Republic of France, and a resident of Paris, France, have invented certain Improvements in Alarm-Gongs (for which I have obtained a French patent dated July 18, 1882, No. 150,155; British Patent No. 5,124, dated October 27, 1882; Austrian patent dated October 28, 1882, and German patent dated October 40, 1882,) of which the following is a specification.

My invention relates more particularly to that class of alarm-gongs in which the bell-striking devices are connected to or operated by the bolt or latch mechanism of a door; and the object of my invention is to combine with such mechanism simple devices for obtaining a succession of rapidly-repeated strokes on the bell without the use of a spring or clock striking mechanism, as more fully described hereinafter.

In the accompanying drawings, Figure 1 is a view representing my improvements applied to a door, in connection with the latch or bolt; Fig. 2, a corresponding plan view; and Fig. 3 a perspective view of the striking-hammer and its pinion, drawn to an enlarged scale.

S is the door-lock, and C the bolt or latch, to be withdrawn into the lock by a suitable handle to open the door, and provided with a spring to throw the bolt outward again when the handle is released.

To the rear end of the bolt I secure an extension, *c*, and connect to the latter a link, *b*, pivoted in turn to a crank or arm, *n*, on the spindle of a wheel, 3, gearing into a pinion, 2, carrying a wheel, 1, gearing into a pinion, *r*, on a spindle, *o*, Fig. 3. On this spindle *o* is secured a piece, *p*, to which is pivoted the hammer *m* to strike the bell T. (Indicated by dotted lines in Figs. 1 and 2.) The gear-wheels and hammer are mounted on a plate or frame within the bell T, secured to the door, and these striking devices, with the bell, may be arranged at any convenient point—as, for instance, at the point T'—instead of that described above, the connection being through a link, *x*. When the bolt is drawn back to open the door, and also on its return to its normal position, the rectilinear movement of the bolt is changed through the gearing into a continuous rotary motion in one direction or the other, and the gear-wheels and pinions are of such relative sizes that each movement of the bolt will cause a number of rapid revolutions to be imparted to pinion *r*, so that the hammer *m* will strike the bell an equal number of times. By this means each time the door is opened the gong will be sounded, and, as I have above indicated, this occurs both on the shooting and withdrawal of the bolt or catch.

It may be desirable in some cases to temporarily throw the gong out of action, for which purpose a hook or other coupling may be used at any suitable point to break the connection. For instance, the link *b* may be disconnected from the piece *c* and allowed to drop into the position indicated by dotted lines in Fig. 1.

I claim as my invention—

The combination of the sliding bolt C, connecting-rod *b*, and crank *n*, with multiplying-gear, pinion *r*, piece *p*, and pivoted hammer, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDOUARD JULIEN MASSERON.

Witnesses:

ALFRED COINY,

ROBT. M. HOOPER.