

J. WINDMÜLLER & F. AHRENS.

Register and Indicator.

No. 217,663.

Patented July 15, 1879.

Fig. 1.

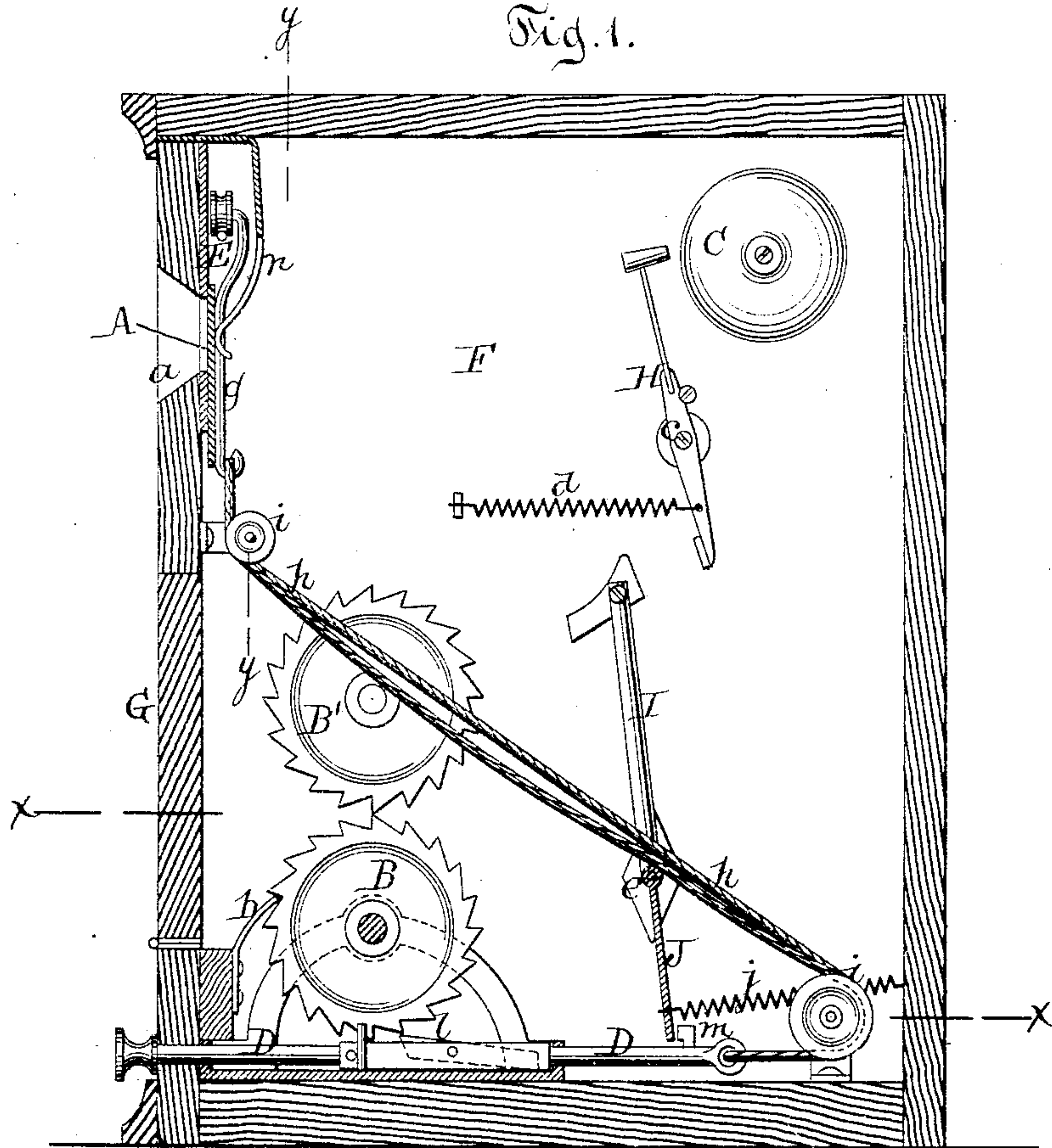
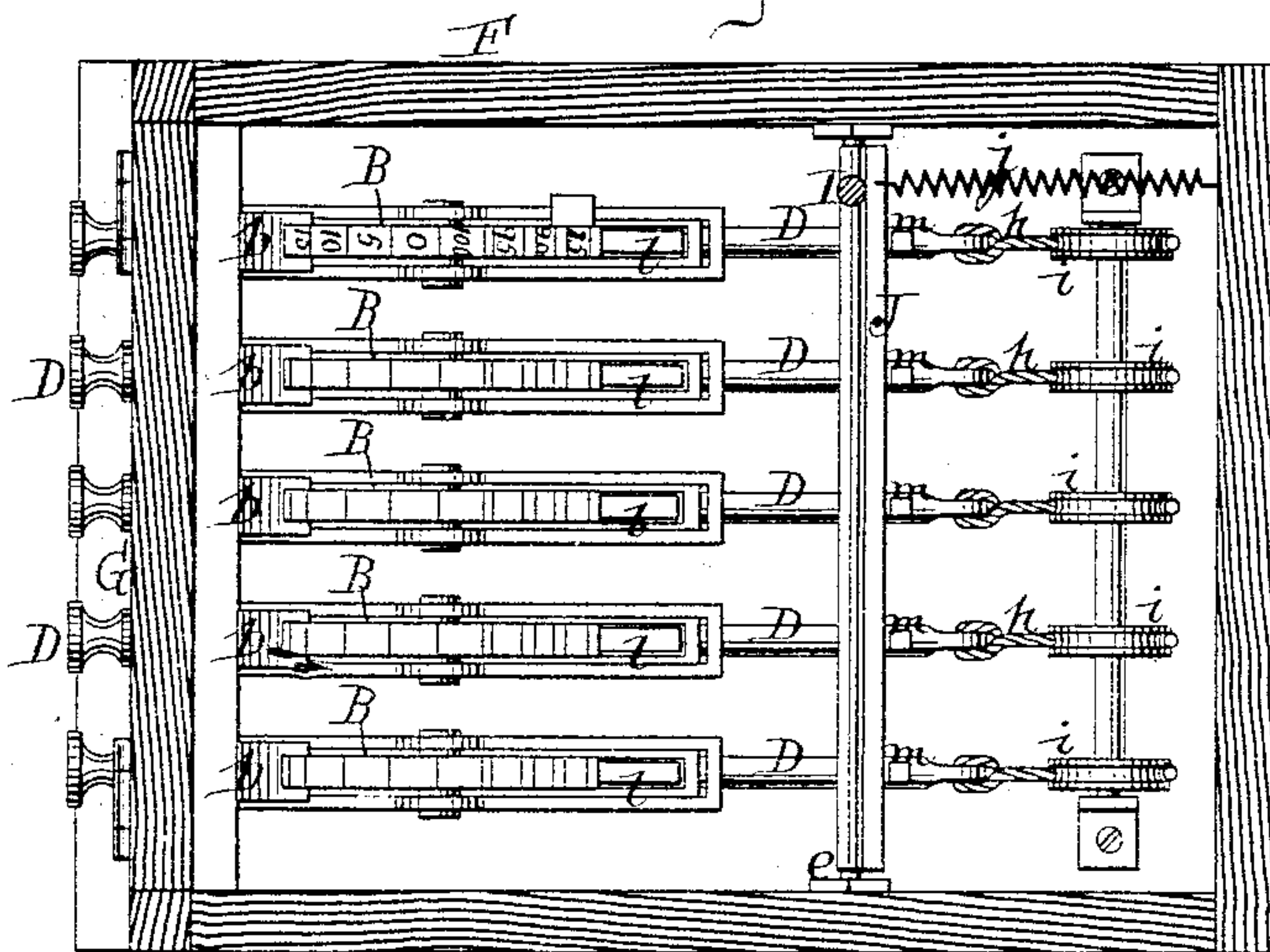


Fig. 2.



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Fig. 3.

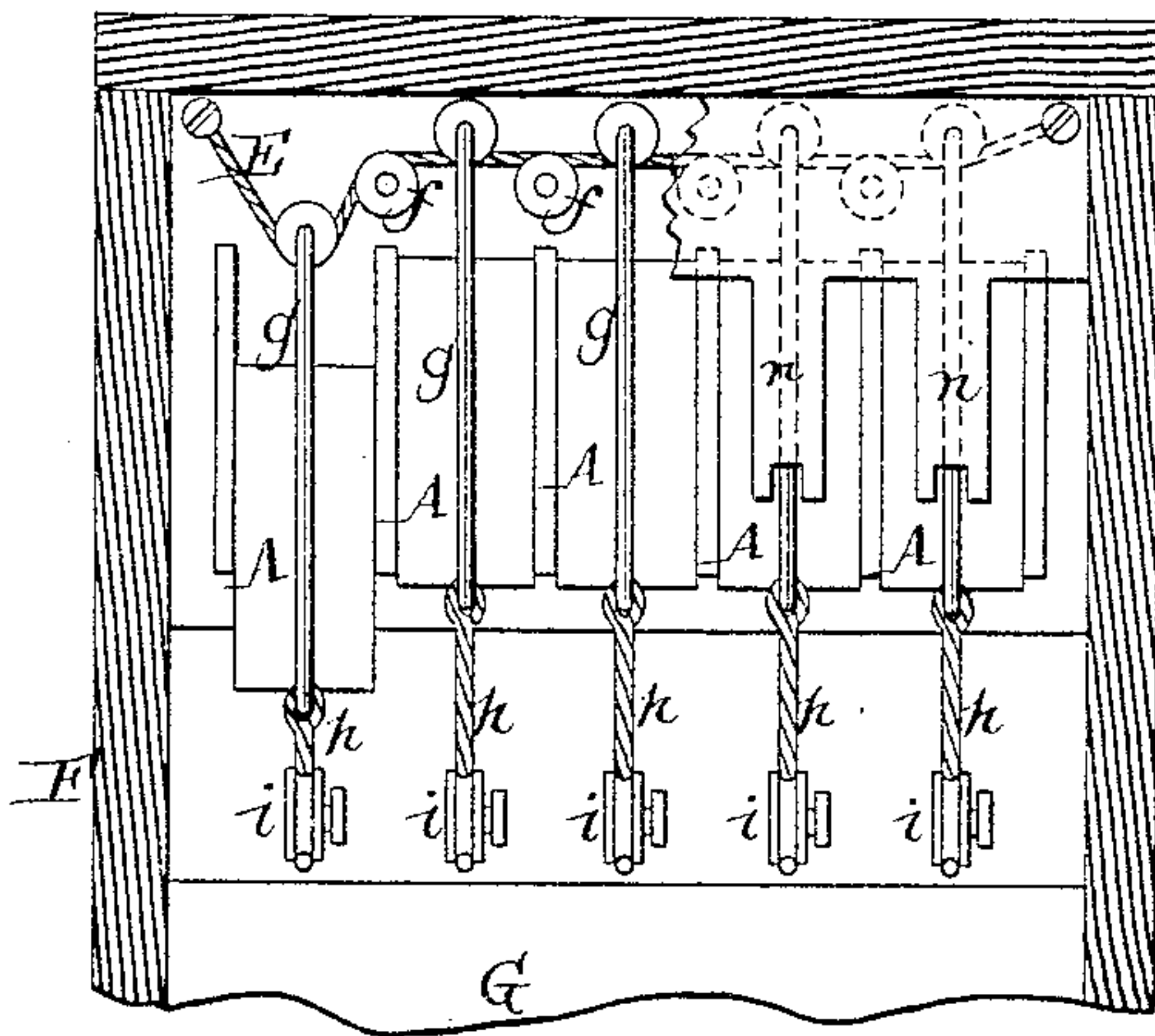
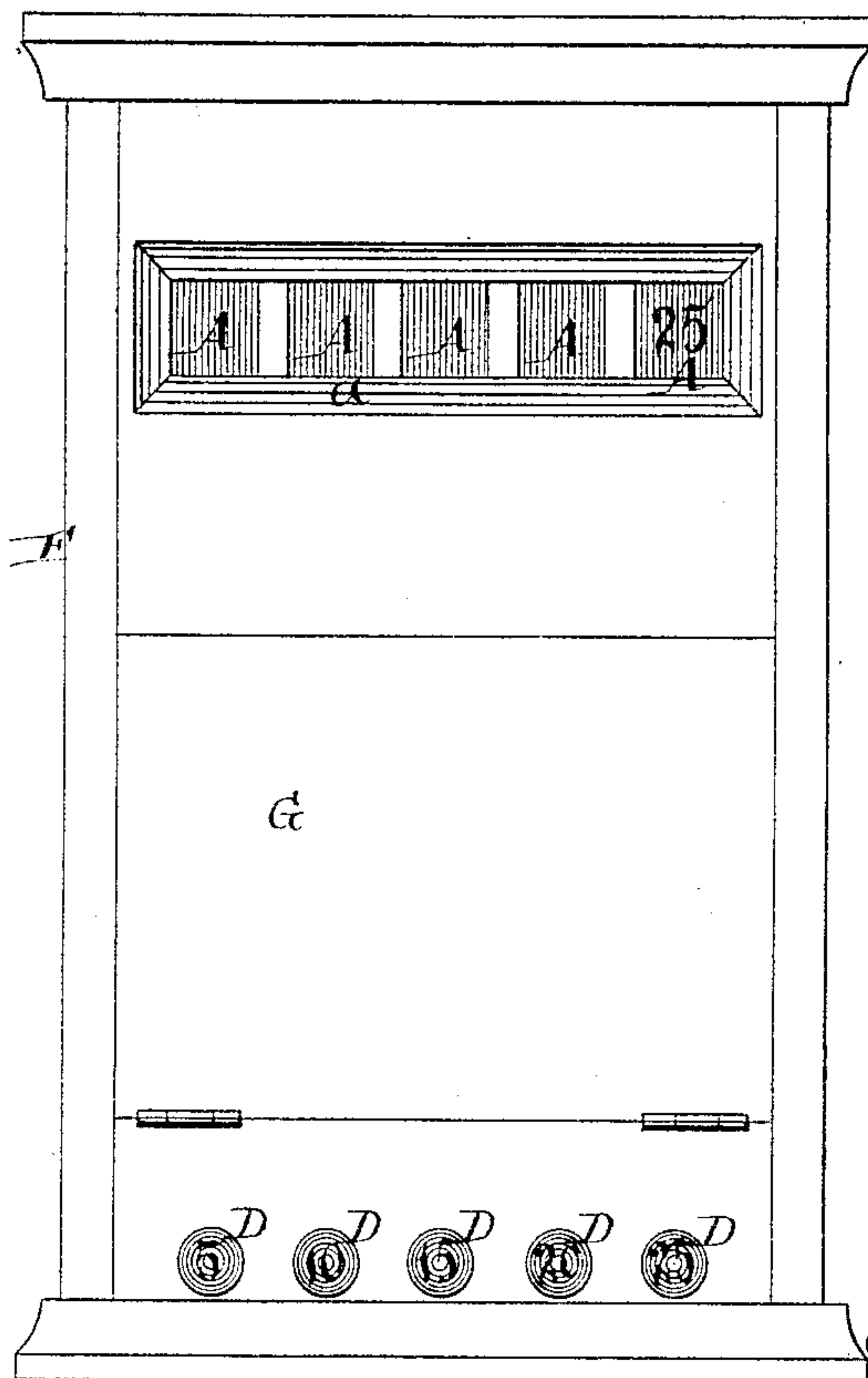


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN REGISTER AND INDICATOR.

Specification forming part of Letters Patent No. **217,663**, dated July 15, 1879; application filed April 23, 1879.

*To all whom it may concern:*

Be it known that we, JOHN WINDMÜLLER and FREDRICK AHRENS, both of the city, county, and State of New York, have invented a new and useful Improvement in Alarm-Registers for use in Bar-Rooms, &c., which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a vertical cross-section of a register embodying our invention. Fig. 2 is a horizontal section thereof in the plane of the line *x x*, Fig. 1. Fig. 3 is a vertical longitudinal section of a portion thereof, showing the arrangement of the indicators, the plane of section being indicated by the line *y y*, Fig. 1. Fig. 4 is a front elevation of the apparatus.

Similar letters indicate corresponding parts.

This invention relates to registers especially intended for bar-rooms; and consists in a novel combination of parts for actuating indicators and registering-wheels.

The improvements will be fully hereinafter described, and specifically pointed out in the claims.

In the drawings, the letter A designates an indicator; B, a general register; C, the bell or gong of an alarm; D, a prime mover, and E means or mechanism for retracting the indicator, combined according to our invention, the parts being, in this example, arranged in series, and the whole being inclosed by a case, F, having a door, G.

The indicators A respectively consist of a slide which faces an opening, *a*, in the case F, and on which is marked a certain number; but other devices may be used in lieu of this slide—as, for instance, a revolving or oscillating disk or an index-hand. Said indicators, moreover, are each pressed upon by a spring, *n*.

Each of the general registers B consists of a toothed wheel, on a suitable part of which are marked the required figures, and with which is combined a detent, *b*. With these general registers B we connect a system of multiplying-gear, a portion of which is shown at B', Fig. 1; but as the arrangement of such gear is well known, an illustration thereof is deemed unnecessary. In this example the figures of the general registers B are marked on

the faces of their teeth, and the detent *b* performs the function of an index; but this arrangement is capable of modification.

The bell-hammer (marked H) swings on a pivot, *c*, and is impelled by a spring, *d*, while it is actuated by an arm, I, mounted on a rock-shaft, *e*. From the rock-shaft *e* projects a blade, J, which extends the whole length of said shaft, or nearly so, and to which is connected a retracting-spring, *j*.

In this example the mechanism for retracting the indicators A consists of a chain or cord, E, (see Fig. 3,) which is fastened at its opposite ends to the case F, and runs over pulleys *f*. Each of the indicators A engages with the chain or cord E by means of an arm, *g*, carrying a wheel which catches over the chain, and said chain or cord is made of such length that there is sufficient slack therein to allow one of the indicators to be moved to a lower position, this latter constituting its exposed position.

The prime movers D respectively consist of a slide, which carries a figure at the outer end, as shown in Fig. 4, and which is connected to one of the indicators A at the inner end by means of a chain or cord, *h*, running over pulleys *i*, while it carries a dog, *l*, (see Fig. 1,) whereby it is adapted to engage with one of the general registers. Each of the prime movers D, moreover, is provided with a projection, *m*, for the purpose of actuating the blade J appertaining to the alarm. The spring *j*, connected to the blade J, in acting upon the latter serves to retract the prime movers D, and retain the same in an inner position.

The operation of our register is as follows: When it is desired to register a certain amount—say ten cents—the prime mover marked with the figure 10 is pulled outward, whereby the appropriate indicator A is brought to an exposed position, the proper general register B is actuated, and the alarm is sounded. As the indicator referred to is drawn down it carries with it the chain E, and thus tightens the latter, so that the indicator previously exposed (one indicator being always exposed) is lifted or moved to a concealed position. One indicator is thus made to constitute the medium through which another is retracted.



When one of the indicators A is brought to an exposed position it is thrown out of gear with its prime mover D, and is unaffected by any immediately-following movements thereof, from the fact that the prime mover then merely takes up the slack in the rope or chain *h*, whereby the prime mover and the indicator are connected together. This, however, does not apply to the general registers and the alarm—that is to say, the latter are actuated at every motion of the prime mover.

When our register is to be used in a bar-room the parts are arranged in series of twenty and upward, and by its means the amounts received during the day can be registered, and afterward totalized by adding up the amounts shown by each register.

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

1. The slides D, provided with pivoted dogs *l* and projections *m*, having on their outer ends figures, in combination with the registering-wheels B, cords or chains *h*, pulleys *i*, indicators A, provided with arms *g*, slack horizontal cord or chain E, passing over pulleys *f*, and with which the arms *g* engage, and the

rocking arm I, for actuating the alarm, mounted on a rock-shaft, *e*, carrying a longitudinal blade, J, with which one end of a retracting-spring, *j*, is connected, all substantially as described, whereby a sliding movement of the slide D will actuate the register, the indicator, and the alarm, and the spring *j* will retract the slide, as herein set forth.

2. In combination with the indicators A and the slack cord or chain E, passing over pulleys *f*, the arms *g*, engaging said cord or chain and attached to the indicator, the cords or chains *h*, connected with said indicators and extending downward over pulleys, and the slides D, attached at their rear ends to said cords or chains *h*, and provided with pawls *l*, for actuating the registering-wheels, all substantially as and for the purpose described.

In testimony that we claim the foregoing we have hereunto set our hands and seals this 19th day of April, 1879.

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FREDRICK AHRENS. [L. S.]

Witnesses:

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