H. D. FLEGEL.

INDICATOR.

APPLICATION FILED JULY 24, 1903.

922,466.

Patented May 25, 1909.

2 SHEETS—SHEET 1.

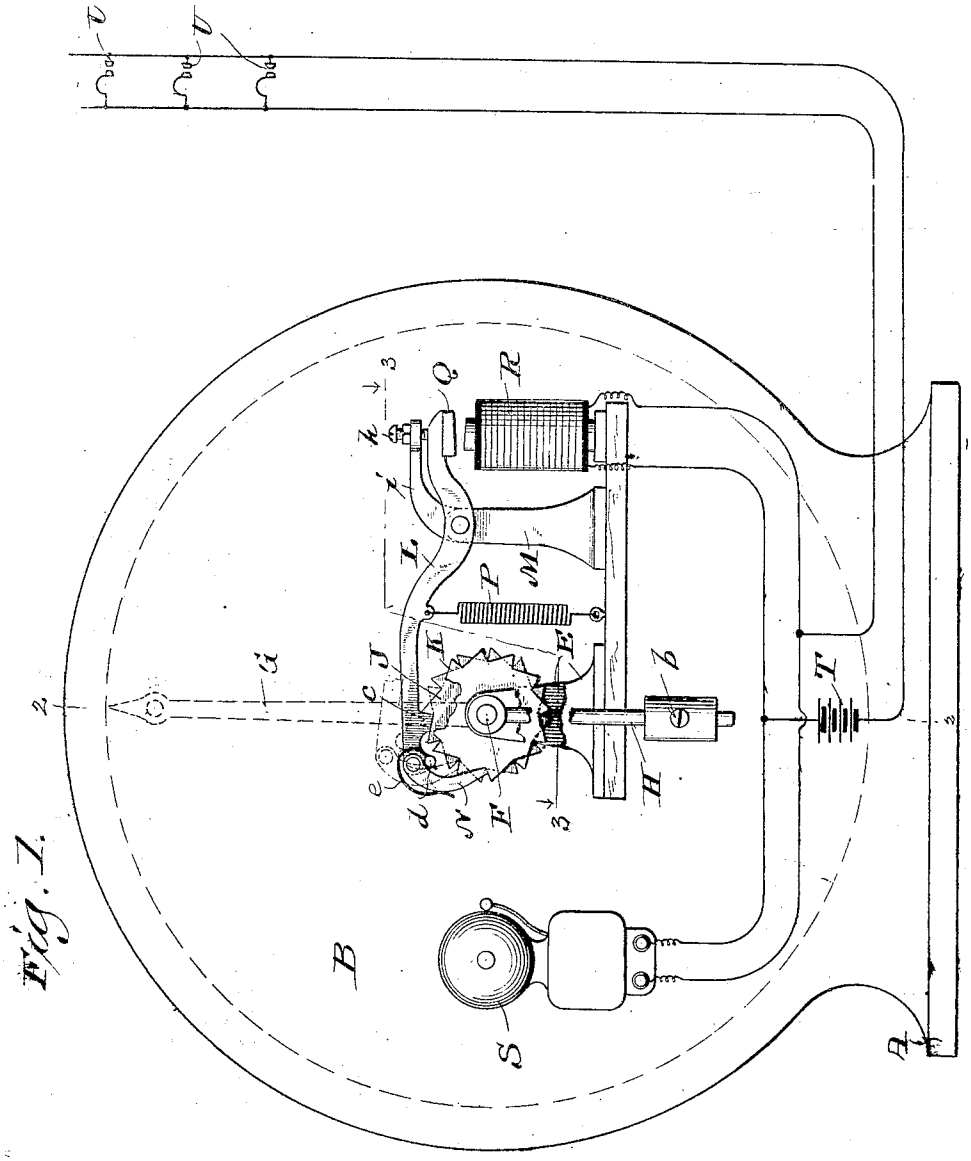


Fig. 1.

Witnesses
Geo. W. Young.
W. E. Oliphant

Inventor:
Harrison D. Flegel

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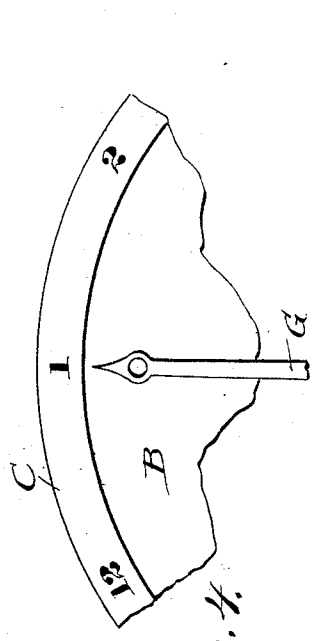


Fig. 4.

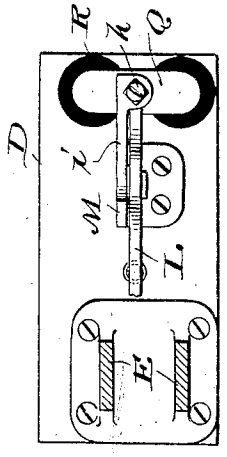


Fig. 3.

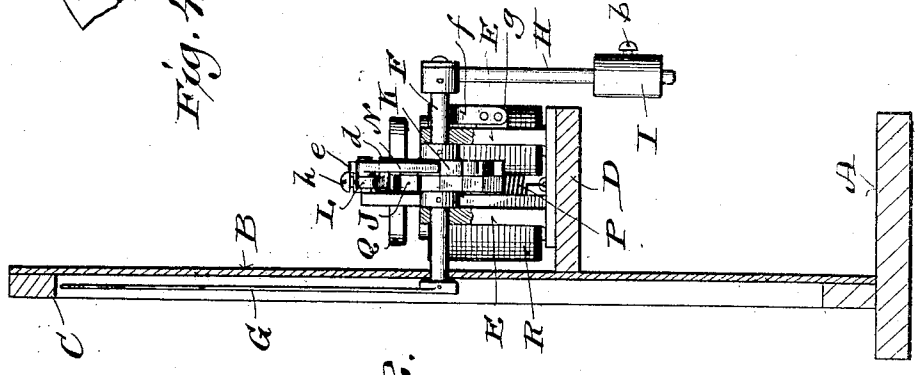


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

HARRISON D. FLEGEL, OF RACINE, WISCONSIN, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO EDWARD J. SCHOWALTER, OF RACINE, WISCONSIN.

INDICATOR.

No. 922,466. Specification of Letters Patent. Patented May 25, 1909.

Application filed July 24, 1903. Serial No. 166,801.

To all whom it may concern:

Be it known that I, HARRISON D. FLEGEL, a citizen of the United States, and resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Indicators; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple, economical means for indicating the turns of waiting patrons in barber-shops and other places where checks are employed to designate the order in which patrons are to be served. Hence said invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a rear elevation of an indicator in accordance with my invention, Fig. 2, a sectional view of the same indicated by line 2—2—in the first figure, Fig. 3, a plan view of a portion of the indicator partly in horizontal section, this view being indicated by line 3—3 in the first figure, and Fig. 4, a front elevation of a fragment of said indicator.

Referring by letter to the drawings, A indicates the base, and B the back of my indicator. Exposed on the back B is a ring C emblazoned with numbers in ascending order at regular intervals, and the space left in the ring may be utilized for the display of advertisements. The ring herein shown is scaled for numbers from one to twelve inclusive, but it may be scaled to include numbers from one to any higher denomination than twelve in ascending order.

Extending rearward from the back B is a shelf D, and fastened on the shelf, by screws or other suitable means, is a bracket that comprises a pair of standards E, these standards being made to serve as bearings for an arbor F that extends through said back axially of the ring C, and fast on the outer end of the arbor is a pointer G that traverses said ring. Rigid on the other end of the arbor is a crank H, and adjustably secured on the crank, by means of a set-screw *b*, is a counterweight I for the pointer.

Between the standards E, a pair of ratchet-wheels J, K, are made fast on the arbor F, the set of these wheels being such that the teeth of one are opposite those of the other with which they break joints, and the number of teeth in each of said wheels correspond with the number-spaces of the ring C above specified.

Engaging the ratchet-wheel J is a detent-lug *c*, of a lever L in pivotal connection with a standard M fast on the shelf D, and in like connection with the lever is a pawl N that engages the ratchet-wheel K, said lever being provided with a lug *d* supporting a leaf-spring *e* that bears against the pawl. A spiral-spring P connects the lever L with the shelf D, and to prevent overrunning of the pointer G, a leaf-spring *f* is arranged in connection with a lug *g* of one of the standards E to bear against the arbor F aforesaid.

The lever L carries the armature Q of an electro-magnet R fastened on the shelf D, and the recoil of the armature is limited by a set-screw *h* engaging a horizontal extension *i* of said standard.

An audible electric signal, such as a bell S, is made fast on the back B, and this signal, the electro-magnet R and a battery T are put in electrical-connection with one or more push-buttons U, it being intended in a barber-shop or other place where there are several workmen or attendants that a push-button shall be arranged convenient to each of said workmen or attendants.

In practice the closing of an electric-circuit, by means of a push-button, will result in an energization of the audible signal and electro-magnet, the attraction of the armature of said magnet causing the lever L to tilt against resistance of the spring P, whereby the detent-lug *c* of said lever is disengaged from the ratchet-wheel J simultaneous with a lift of the pawl N to engage another tooth of the ratchet-wheel K, so that when the push-button is released there will be an automatic partial rotation of the arbor F, due to a like return of the aforesaid lever to normal position, as a result of a contraction of the spring. Hence the pointer F will be moved one numbered space on the ring C, and the number then under said pointer will be that of the next person to be served.

Having now fully described my invention what I claim as new and desire to cover by Letters Patent, is:

The combination in an indicator of a device having numbers displayed thereon in ascending order at regular intervals of a circle, a step-by-step rotary adjustable pointer for the numbers, an audible electric-signal,

a spring-controlled lever, an armature on the lever, an electro-magnet opposing the armature and in circuit with the signal, a ratchet-wheel rigid on a suitably mounted arbor to which the pointer is attached, a pawl engaging the ratchet-wheel and connected to said lever, and a normally open push button closer for said circuit, the closing of the circuit resulting in an energization of the signal and an attraction of the armature by the magnet against resistance of the spring controlling said lever, whereby when the circuit is again opened the signal and magnet are cut-out and the aforesaid lever automatically actuated to effect a one step movement of said pointer.

In testimony that I claim the foregoing I have hereunto set my hand at Racine in the county of Racine and State of Wisconsin in the presence of two witnesses.

HARRISON D. FLEGEL.

Witnesses:

EDWARD J. SCHOWALTER,

MATHIAS RUETZ.