No. 869,858. PATENTED OCT. 29, 1907.

J. J. LEIDIGH.

# CREDIT MARKING APPARATUS.

APPLICATION FILED JAN. 24, 1906.

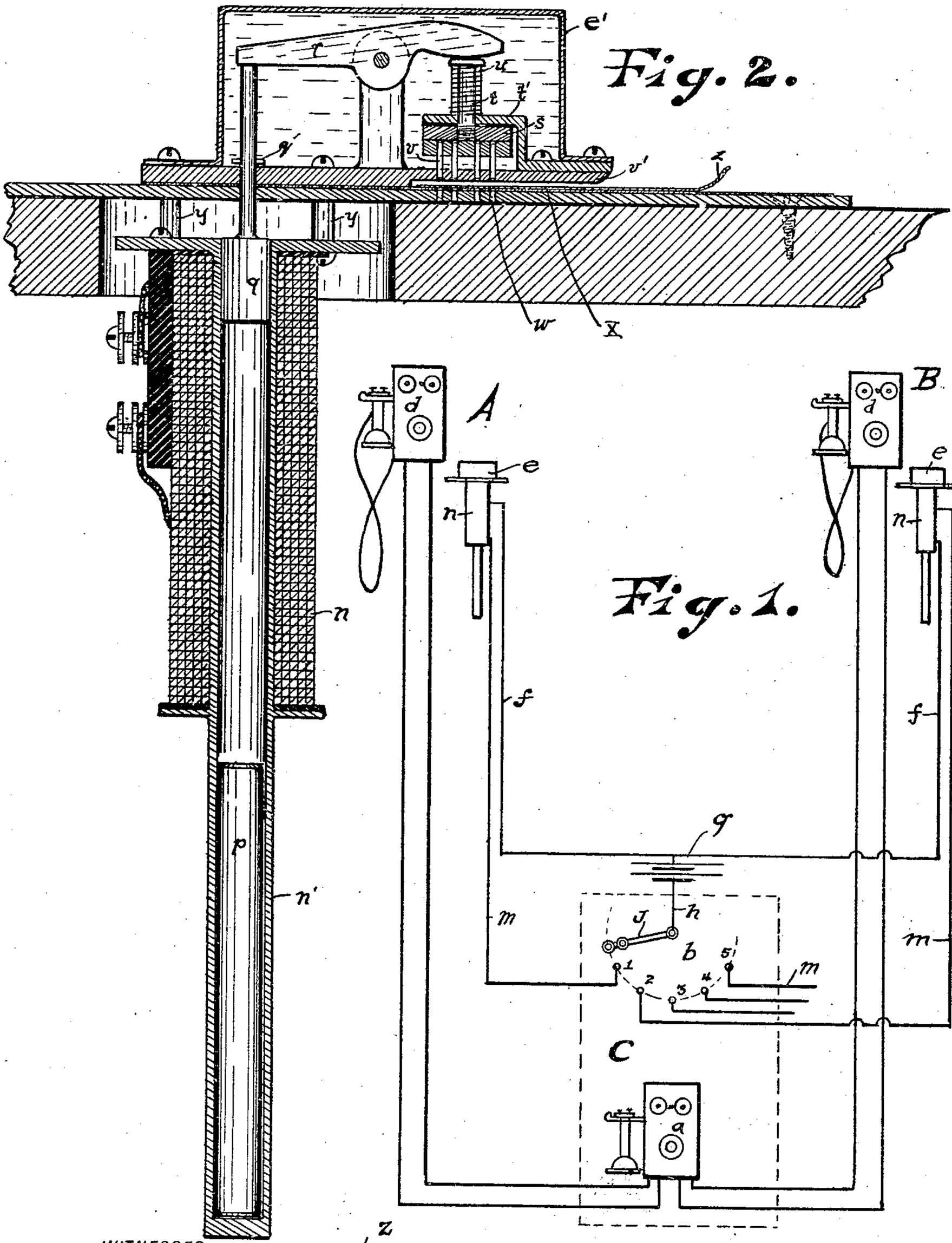


Fig. 2.







Fig. 1.

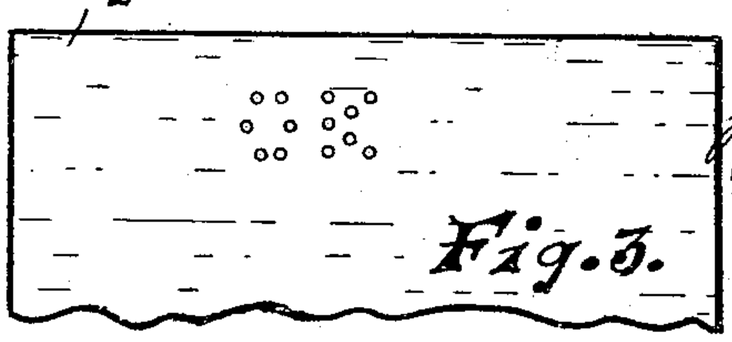


Fig. 3.

WITNESSES:

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## CREDIT-MARKING APPARATUS.

No. 869,858. Specification of Letters Patent. Patented Oct. 29, 1907.

Application filed January 24, 1906. Serial No. 297,562.

*To all whom it may concern:*

Be it known that I, JOHN J. LEIDIGH, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Credit-Marking Apparatus, of which the following is a specification.

My invention relates to improvements in "credit marking apparatus" and pertains especially to improvements in that class of apparatus shown and described in a former application filed by me November, 27th, 1905, Serial No. 289,166 in which means are provided for use in connection with a telegraphic or telephonic system whereby the sender of a message may instantly receive information in the form of a permanent record from the central or message receiving station.

The object of this invention is to provide an improved form of electro-magnetic punch for use in such a system.

In the following description reference is had to the accompanying drawings in which,—Figure 1 is a diagrammatic illustration of my invention as used in combination with a telephone system. Fig. 2 is a sectional view of the electro-magnetic punch. Fig. 3 is a detail view of a portion of the die plate showing the perforations adapted for the reception of the punching pins, also indicating the nature of the mark registered.

Like parts are identified by the same reference characters throughout the several views.

Referring to Fig. 1 it will be observed that two local stations A and B are connected with a central station C. The central station C is provided with a telephone *a* and a switch-board *b*. Each of the local stations is provided with a telephone *d* and an electro magnetic marking device *e*. Each of the marking devices is connected by conductors *f* with one pole of the source of electrical energy at *g*, the other pole being connected by a conductor *h* with the switch-lever *j*, which is adapted to be swung into contact with terminals at 1, 2, 3, 4 and 5 on the switch-board *b*. Each of the conductors *f* communicates with conductors *m* through the coils of an electro-magnet *n*. The conductors *m* of the various stations connect with the respective terminals 1, 2, 3, 4 and 5, whereby an electrical circuit is closed through the electro-magnet *n* of any station when the circuit is closed through the terminal on the switch-board pertaining to that station.

Referring now to Fig. 2, it will be observed that the electro-magnet *n* is provided with a central cylindrical tube *n'* extending there through and depending there from. The lower end of the tube is closed and a core bar or hammer is located in the tube, whereby when the coils of the magnet are energized this bar *p* is drawn upwardly in the tube and strikes a bar *q*, which is connected with the punch operating lever *r*, the other end of which actuates the puncher head *s* through a vertical post *t* operating through a bracket *t'*. A cross pin *q'* inserted through an aperture in the bar *q* limits the downward movement of the bar by striking the gage plate *v'*. The puncher-head is normally lifted by a spring *u* and is provided with a series of depending pins *v*, which pass through a gage plate *v'*, and are adapted to enter corresponding apertures *w* in the bed plate *x* from which the electro-magnet is preferably supported by bolts *y*. The credit slip *z* is inserted between the over-hanging portion of the gage plate *v'* and the bed plate *x* in a position to cover the the apertures *w*, this being done at the local station before telephoning to the central station for the information. Where a credit rating is desired, the operator at the central station swings the switch-lever *j* into contact with the terminal corresponding with the station from which the call originates, thus closing the circuit through the electro-magnet *n* at that station and operating the punch. The punch pins are preferably arranged to form perforations in the credit slip *z*, which will represent the letters O. K., thus furnishing the local saleman with record evidence of the rating given the customer by the credit department. The punch and its actuating lever are preferably inclosed by a housing *e'*, thus preventing the local saleman from making fraudulent credit marks.

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

1. In a device of the described class, the combination of a perforated die table; a gage plate mounted thereon; a bracket supported from the gage plate; a puncher head yieldingly supported from said bracket and provided with punch pins adapted to pass through perforations in the gage plate to the perforations in the die table; a lever having one arm connected with the puncher head and an electro-magnetic hammer arranged in operative relation to the other arm of said lever.

2. In apparatus of the described class, the combination of a die table; a punch in operative relation thereto; a punch actuating lever; and an electro magnetic hammer for actuating the lever, together with a housing covering the punch and its actuating lever, and provided with a ticket receiving slot.

3. In apparatus of the described class the combination of a die table; a housing thereon provided with a ticket receiving slot, a lever fulcrumed within the housing; a punch provided with pins adapted to be projected across said ticket receiving slot; a post connected with the punch head in the path of one arm of said lever; a spring adapted to normally hold the post and puncher head in retracted position; an electro magnet located underneath said table; a movable bar extending through said table to the other arm of said lever; and an electro magnetic hammer, adapted, when the magnet is energized, to strike said bar and actuate said lever.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN J. LEIDIGH.

Witnesses:
JAS. B. ERWIN.
LEVERETT C. WHEELER.