

W. H. BUNDY.
TIME RECORDER.

APPLICATION FILED AUG. 29, 1902.

898,718.

Patented Sept. 15, 1903.

Fig. 1.

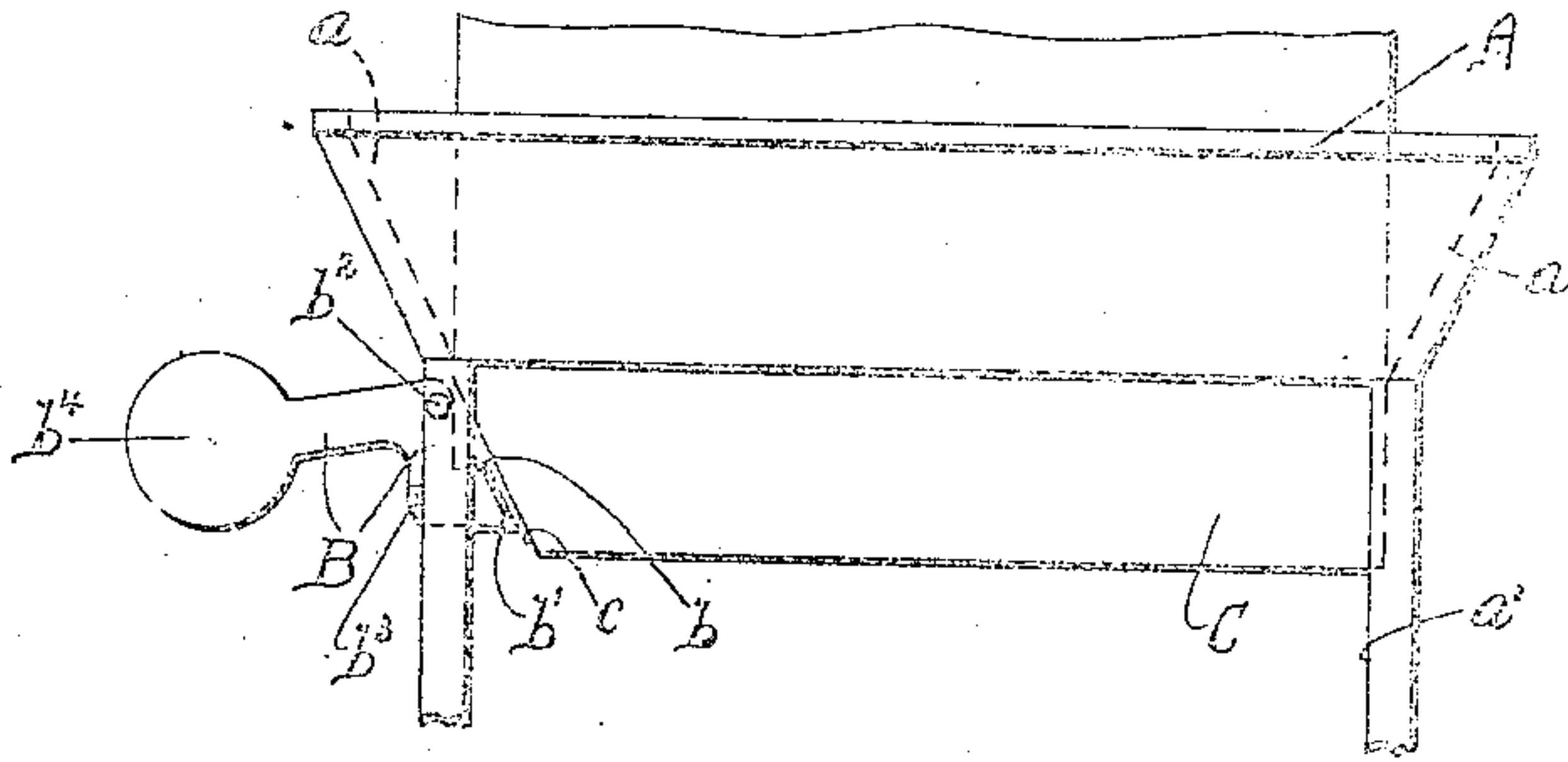


Fig. 2.

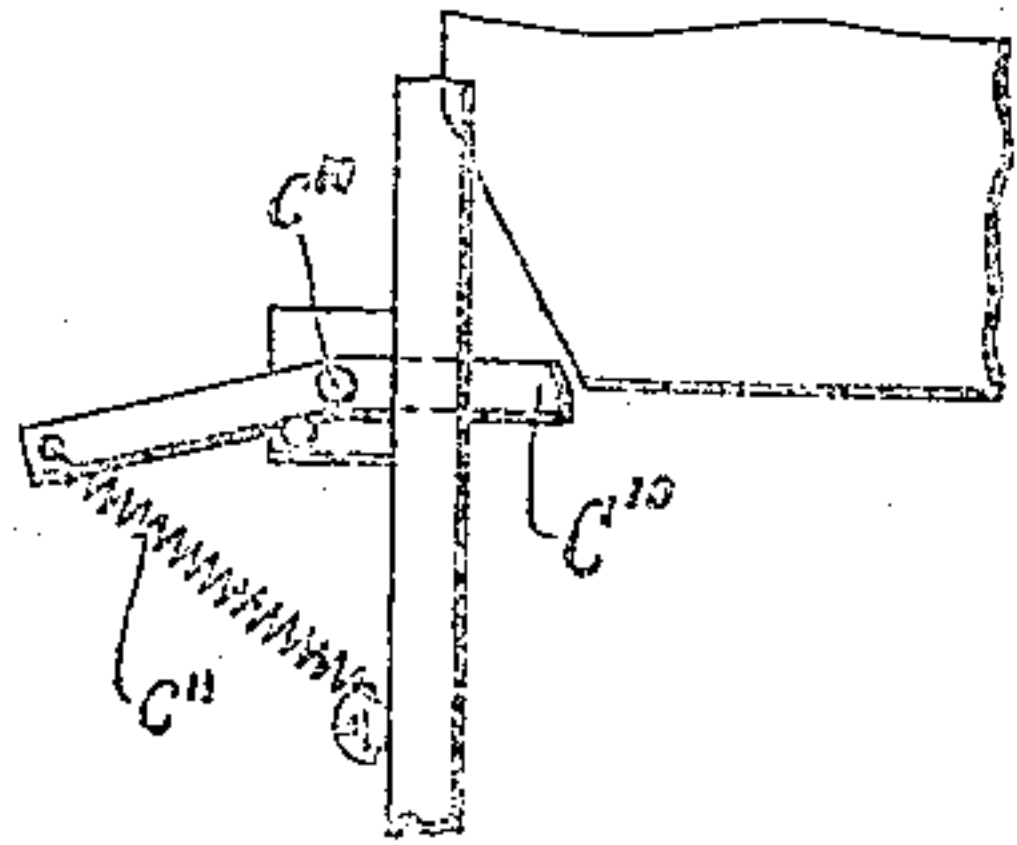


Fig. 3.

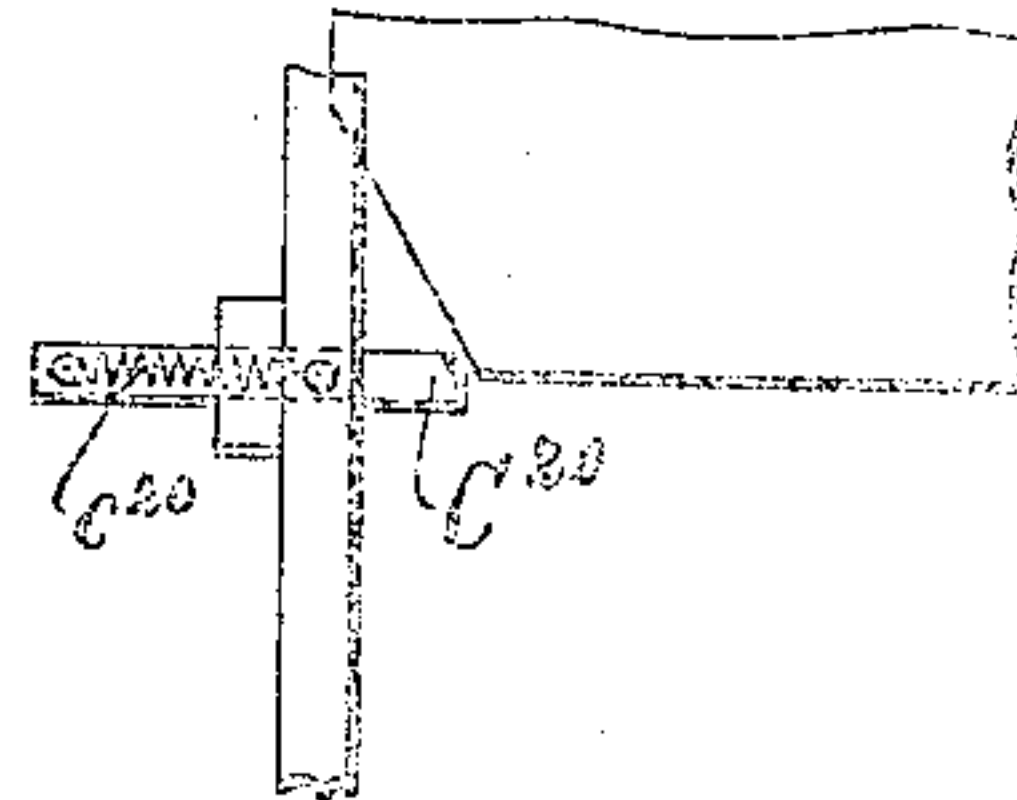


Fig. 4.

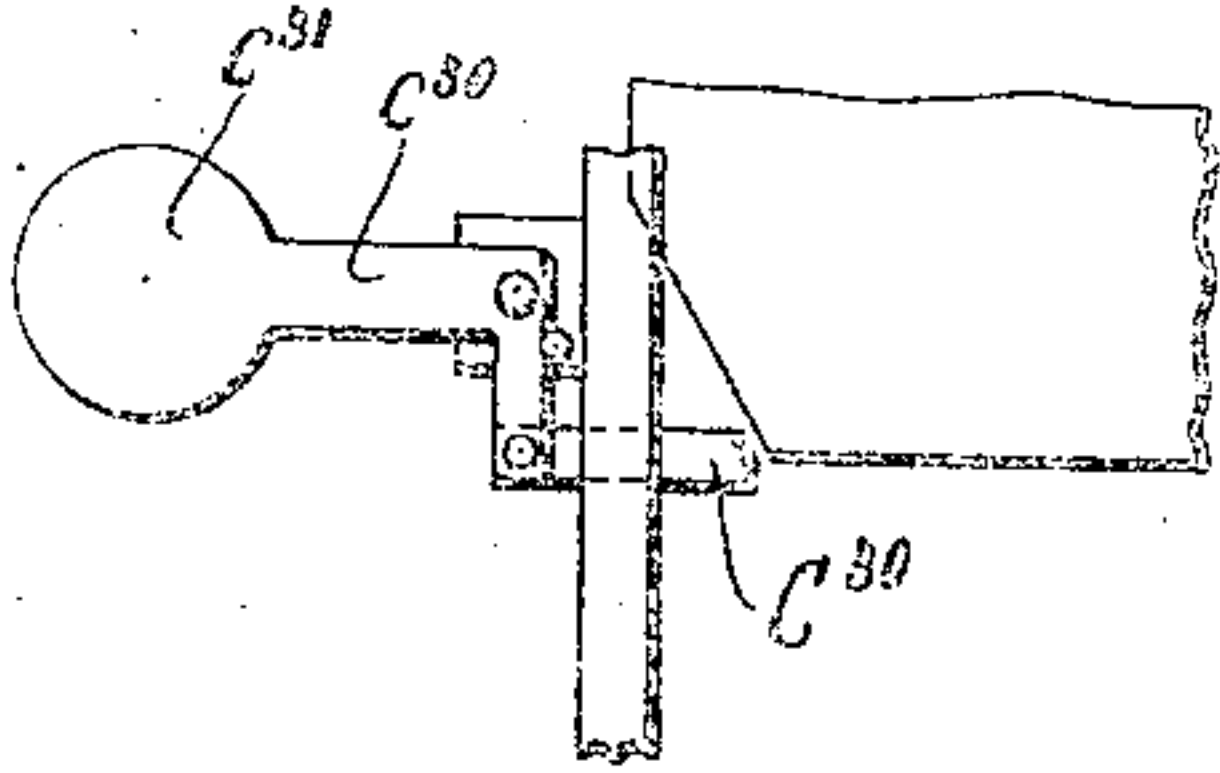
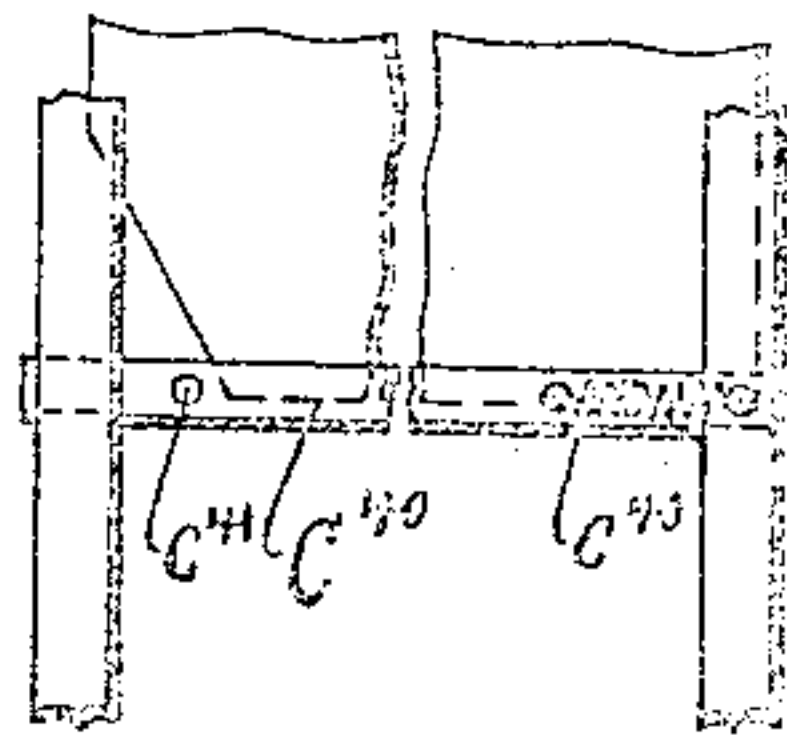


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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TIME-RECORDER.

No. 898,718.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed August 29, 1902. Serial No. 121,482.

To all whom it may concern:

Be it known that I, WILLARD H. BUNDY, of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Time-Recorder, of which the following is a specification.

My invention relates to time-recorders, and has for its object the production of means of simple and durable construction for preventing the insertion within the recorder of a card not arranged in the predetermined position, and it consists in the combinations and constructions hereinafter fully described and pointed out in the claims.

Figure 1 is a front elevation of a portion of a time-recorder embodying my invention. Figs. 2, 3, 4 and 5 are elevations of modified constructions of the portion of a time-recorder shown in Fig. 1.

This invention embodies a card-guide A and a stop B.

The card-guide A is of any desirable form, size and construction, and is here illustrated as provided with an entrance in one end having diverging surfaces *a* and with an opening *a'* extending through its opposite walls for exposing the card when within the guide.

As preferably constructed, the stop B is pivoted at one side of the card-guide A in proximity to its entrance, and is formed with engaging faces *b b'*. The face *b* normally projects into the path of the card C below and at the inner side of the pivot *b²* for the stop B and at substantially right angles with said path; and the face *b'* is arranged in an upwardly inclined plane at the inner side of the face *b*. Said stop B is also provided with a stop-shoulder *b³* and with any suitable means, as a weight *b⁴* for automatically rocking the stop on its pivot into operative position with its stop-shoulder *b³* in engagement with the wall of the guide A.

When the card C is not arranged in the predetermined position and is inserted within the entrance of the guide A, the face *b* encounters a transverse edge of the card, as the lower edge thereof, and prevents said card from assuming the desired position within the guide A. On the contrary, if the card C is in the predetermined position, the face *b'* is engaged by an edge *c* of the card extending upwardly at an angle with the path of the card and the stop B is rocked on its pivot out of operative position against the action of the weight *b⁴* by the card moving within the guide to the desired position.

The stop of my invention may be more or less modified, as will be obvious to those skilled in the art, and as seen in Figs. 2, 3, 4 and 5. In Fig. 2 I have shown a stop *C¹⁰* pivoted at *c¹⁰* and connected to a spring *c¹¹*, and in Figs. 3, 4 and 5 I have illustrated a plurality of reciprocating stops *C²⁰ C³⁰ C⁴⁰*, the stops *C²⁰ C⁴⁰* being connected to springs *c²⁰ c⁴⁰*, and the stop *C³⁰* being pivoted to one arm of a lever *c³⁰* having its other arm provided with a weight *c³¹*. The stop *C⁴⁰* is usually provided with a card-abutment *c⁴¹* which may be removably secured to either end of said support for cooperating with cards having either side provided with inclined edges for engaging said abutment.

The construction and operation of my means for preventing the insertion within the recorder of a card not arranged in the predetermined position, will now be readily understood from the foregoing description and the accompanying drawing, and it will be apparent to those skilled in the art that more or less change may be made in the component parts thereof without departing from the spirit of my invention.

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

1. In a time-recorder, a card-guide, and a stop normally projecting into the path of the card for preventing movement of the card in the guide when not arranged in the predetermined position and movable out of said path by the card when arranged in the predetermined position, substantially as and for the purpose described.

2. In a time-recorder, a card-guide, and a stop normally projecting into the path of the card for preventing movement of the card in the guide when not arranged in the predetermined position and movable laterally out of said path by the card when arranged in the predetermined position, substantially as and for the purpose specified.

3. In a time-recorder, a card-guide, and a pivoted stop normally projecting into the path of the card for preventing movement of the card in the guide when not arranged in the predetermined position and movable on its pivot out of said path by the card when arranged in the predetermined position, substantially as and for the purpose set forth.

4. In a time-recorder, a card-guide, and a stop normally projecting into the path of the card for preventing movement of the card in

the guide when not arranged in a predetermined position, and movable laterally out of said path by the card when arranged in the predetermined position, said stop being provided with means for returning the stop to its normal position, substantially as and for the purpose specified.

5. In a time-recorder, a card-guide, and a stop normally projecting into the path of the card for preventing movement of the card in the guide when not arranged in the predetermined position and movable laterally out of said path by the card when arranged in the predetermined position, said stop being provided with a weight for rocking the same on its pivot into operative position, substantially as and for the purpose described.

6. In a time-recorder, a card-guide, and a stop having an engaging face normally projecting into the path of the card at substantially right angles therewith for preventing the movement of the card when not arranged in the predetermined position, said stop also having a face arranged at the inner side of the former face and engaged by the card for moving the stop out of the path of the card when said card is arranged in the predetermined position, substantially as and for the purpose specified.

7. In a time-recorder, a card-guide, and a stop having an engaging face normally projecting into the path of the card at substantially right angles therewith for preventing the movement of the card when not arranged in the predetermined position, said stop also having an inclined face engaged by an edge of the card disposed at an angle with the path of the card for moving the stop out of said path when the card is arranged in the predetermined position, substantially as and for the purpose set forth.

8. In a time-recorder, a card-guide, and a pivoted stop having an engaging face normally projecting into the path of the card at the inner side of the pivot and at substantially right angles with said path for preventing the movement of the card when not arranged in the predetermined position, said stop also having means engaged by the card for moving the stop out of the path of the card when said card is arranged in the predetermined position, substantially as and for the purpose described.

9. In a time-recorder, a card-guide, and a

pivoted stop having an engaging face normally projecting into the path of the card at the inner side of the pivot and at substantially right angles with said path for preventing the movement of the card when not arranged in the predetermined position, said stop also having an inclined face arranged at the inner side of its former face and engaged by an edge of the card disposed at an angle with the path of the card for moving the stop out of said path when the card is arranged in the predetermined position, substantially as and for the purpose specified.

10. In a time-recorder, a card-guide, and a stop provided with means in the path of the card for encountering the card when not arranged in the predetermined position and thereby preventing movement of the card, said means being movable by the card out of said path when the card is arranged in the predetermined position, substantially as and for the purpose described.

11. In a time-recorder, a card-guide, and a stop provided with faces in the path of the card disposed at an angle with each other, one encountering the card when not arranged in the predetermined position and thereby preventing movement of the card, and the other being engaged by the card when arranged in the predetermined position for moving the stop out of the path of the card, substantially as and for the purpose specified.

12. In a time-recorder, a card-guide, and a stop having an engaging face normally projecting into the path of the card at substantially right-angles therewith for encountering a transverse edge of the card when not arranged in the predetermined position and thereby preventing movement of the card, said stop also having a face engaged by an upwardly extending face of the card when arranged in the predetermined position for moving the stop out of said path, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto signed my name in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 21st day of August, 1902.

WILLARD H. BUNDY.

Witnesses:

D. LAVINE,
S. DAVIS.