

UNITED STATES PATENT OFFICE.

CHARLES W. GRAHAM, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO INTERNATIONAL TIME RECORDING CO., A CORPORATION OF NEW JERSEY.

RECORDING ATTACHMENT FOR TIME-STAMPS.

SPECIFICATION forming part of Letters Patent No. 748,365, dated December 29, 1903.

Application filed March 29, 1897. Serial No. 629,640. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. GRAHAM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new Improvement in Recording Attachments for Time-Stamps, of which the following is a specification.

My invention relates to an improved attachment for time-stamps whereby an accurate registration of time may be preserved upon a card of each employee in mills, stores, and other places of employment.

My invention has for its object the provision of apparatus or a device for conjunctive use with a time-stamp, consisting of a guide plate or ledge projected upward from and along the top plate of the time-stamp, which also serves as a support for the punching mechanism actuated by the platen of the time-stamp. I employ a suitable card properly spaced and having certain designated heads for the record of the time, which card is adapted to receive impressions and record of time from the time-stamp. As the card is divided regularly into spaces for each day record of the week, it is necessary that it be fed accurately ahead with a step-by-step movement in order to shift the position of the card with relation to the impression mechanism of the time-stamp.

In carrying out the object of my invention I employ a punching device, which, as just stated, is actuated by the platen, which successively cuts out a portion of the card, and thus permits a movement thereof longitudinally a sufficient distance to accurately register the desired space thereon relative to the impression mechanism of the time-stamp.

My invention has certain other objects in view; and it consists in certain features about to be described, and particularly pointed out in my claims, reference being now had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device shown attached to a time-stamp. Fig. 2 is a like view of a time-record card.

The time-stamp is designated generally at A and is of any suitable construction and character well known and having the usual

platen B, operated manually in the customary way. Secured to the top plate D of the time-stamp is a guiding and supporting ledge E, in which is mounted to vertically reciprocate and outsetting from the face thereof a punch or cutter E², as shown in Fig. 1, the ledge broken away. A spring H is secured at one end upon the ledge E and also at its other end secured to the upper portion of the punch or cutter E². Projected from the platen B is a striker J in alinement with the punch or cutter E². When the platen B is manually caused to descend in order to take the time impression, the striker J' forcibly engages the upper end of the punch or cutter E², held in an elevated position by the spring H, thus causing the cutter E² to forcibly descend. The guide-ledge and cutter are parallel with the line of feed of the time-card and to one side of the recording mechanism, so that a longitudinal edge of the card is in contact with the guide when said card is laid in position for securing the impression. Immediately behind the cutter in the line of feed is an abutment L, outsetting from the guide-ledge to the same thickness as the cutter or punch, and the diameter of the cutter in said line of feed corresponds with the space upon the card appropriated to each successive record.

Referring now to Fig. 2, it will be observed that I provide a card K, which is suitably spaced and subdivided in order to receive the time impressions from the time-stamp and also such other designating matter as may be written or printed upon the card. It is necessary, however, that the time impressions of the time-stamp should be imposed within the spaces K² and that means shall be provided whereby to feed the card progressively as each impression is made in order to receive and impose the next impression in the proper place.

It will be apparent that when the card K is placed face downward upon the top plate D of the time-stamp and its left-hand edge, as shown in Fig. 2, bearing against the guiding and supporting ledge E the end left-hand corner of the card engages against the abutment L and a portion of its left-hand edge at the extreme advanced end thereof is over the aperture L² in the top plate D. The card being

thus positioned, the time impression will be imposed upon said card in the first one of the spaces K^2 when the platen B is operated. As described, the punch or cutter E^2 descending rapidly with the platen a portion of said left-hand edge of the card is cut away, forming a notch therein the shoulder of which when the card is again positioned engages the abutment L, thus permitting the impression upon the card of the next succeeding time-record in the proper place. As each impression is taken a portion of the edge of the card is cut away, and therefore the impression is each time made upon the card in the proper place.

15 A discharge-way M is provided beneath the punch or cutter E^2 to receive the waste cuttings and discharge the same on the exterior of the time-stamp.

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

1. The combination with a time-stamp having a suitable casing and top plate, of a lateral guide on said top plate, a punch or cutter playing along the face of said guide and operated in the manipulation of the time-stamp, and an abutment in rear of the punch, the parts being so arranged and proportioned that the punch severs a blank from the edge of the card proportionate to the distance the card is to be fed for the next impression, and the abutment acts as a stop in such impression against the shoulder left by said blank.

2. The combination with a time-stamp having a suitable casing and top plate of a lateral guide on said top plate, a punch or cutter playing in and outsetting from the face of said guide, and operated in the manipulation of the time-stamp, and an abutment in rear of the punch, flush with the exposed face thereof, the arrangement being such that the cutter punches a blank from the edge of the card simultaneously with each recording operation, to form on said card a gage for the next recording operation.

3. The combination in a device of the character described, with a marking device, of a guideway for directing the slip to be marked along over said marking device, a stop at one side of said guideway for limiting the entrance of the slip into said guideway, means for causing said marking device to impress a slip in the guideway and simultaneously sever a portion of the slip at one side for a width equal to the width of said stop to allow the slip to be inserted for the next impression for a distance equal to the longitudinal depth of the portion severed, substantially as set forth.

4. The combination in a device of the character described, with type-wheels and means for rotating them, of a guideway for directing the slip to be printed along over the type-wheels, a stop at one side of said guideway for limiting the entrance of the slip into the guideway, means for causing the type-wheels to print on the slip in the guideway and simul-

taneously sever a portion of the slip at one side for a width equal to the width of said stop to allow the slip to be inserted for the next impression for a distance equal to the longitudinal depth of the portion severed, substantially as set forth.

5. The combination in a device of the character described, with a clock and type-wheels driven thereby, of a guideway for directing the slip to be printed along over the type-wheels, a stop at one side of the guideway for limiting the entrance of the slip into the guideway, means for causing the type-wheels to print on the slip in the guideway and simultaneously sever a portion of the slip at one side for a width equal to the width of said stop to allow the slip to be inserted for the next impression for a distance equal to the longitudinal depth of the portion severed, substantially as set forth.

6. The combination in a device of the character described, with a case containing type-wheels and means for rotating them, said case having a slot at the top of which said type-wheels are exposed, of a guideway for directing a slip to be printed along the casing over said slot, a stamp located over said slot, a stop at one side of said guideway for limiting the entrance of a slip into the guideway, means for bringing the stamp and the type-wheels exposed at said slot together to cause the slip to receive an impression and simultaneously sever a portion of the slip at one end for a width equal to the width of said stop to allow the slip to be inserted for the next impression for a distance equal to the longitudinal depth of the portion severed, substantially as set forth.

7. In a time-stamp, and in combination with the time mechanism and other essential elements thereof, a punch adapted to be operated in the manipulation of the time-stamp, a guide-plate in which said punch is mounted for vertical reciprocation, a leaf-spring having one end secured to said plate and its other end secured to the upper end of said punch, the punch thereby being held normally up and suspended from the free end of said spring, and an abutment in rear of said punch adapted to limit the movement and determine the position of a card or the like upon which the imprint is to be made, and means for disposing of the portions of the card or the like cut away by said punch.

8. The combination of a time-stamp having time and printing mechanism, and having also an apertured top and a manually-operated platen, said platen being provided with a projection, a plate having a vertically-extending guide-flange secured adjacent the aperture in said top, a punch or cutter mounted for vertical reciprocation in said guide-plate and adapted to be engaged by the said projection on the platen, the top of the time-stamp being also provided with an aperture adapted to receive said punch or cutter, a leaf-spring having one end secured to said guide-plate

and its other end removably secured to the
upper end of said punch or cutter, the punch
or cutter thereby being suspended from the
normally raised free end portion of the said
5 spring, an abutment for limiting the move-
ment and determining the position of the card
or slip upon which the imprint is to be made,
and a discharge-way adapted to receive the

punched or cut-away portions of the card or
slip from said last-mentioned aperture. 10

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

CHARLES W. GRAHAM.

Witnesses:

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