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1,440,597.

G. F. HANDLEY.

CARD HOLDER FOR TYPEWRITING MACHINES.

FILED MAR. 8, 1922.

3 SHEETS—SHEET 2.

Fig. 4.

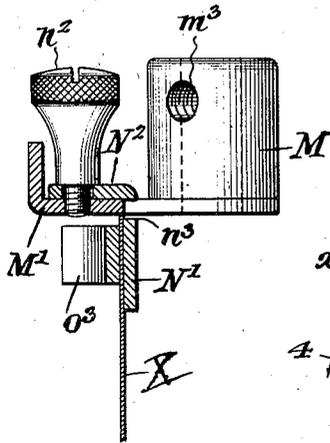


Fig. 5. Fig. 6.

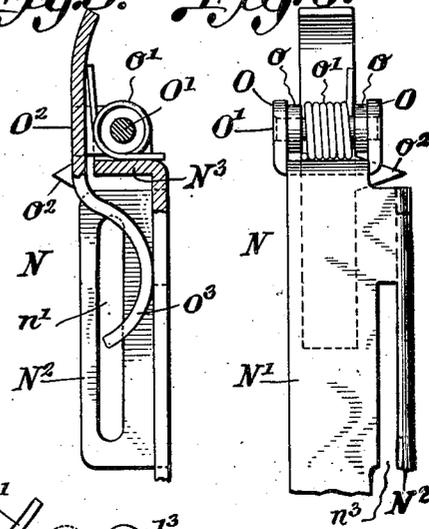


Fig. 3.

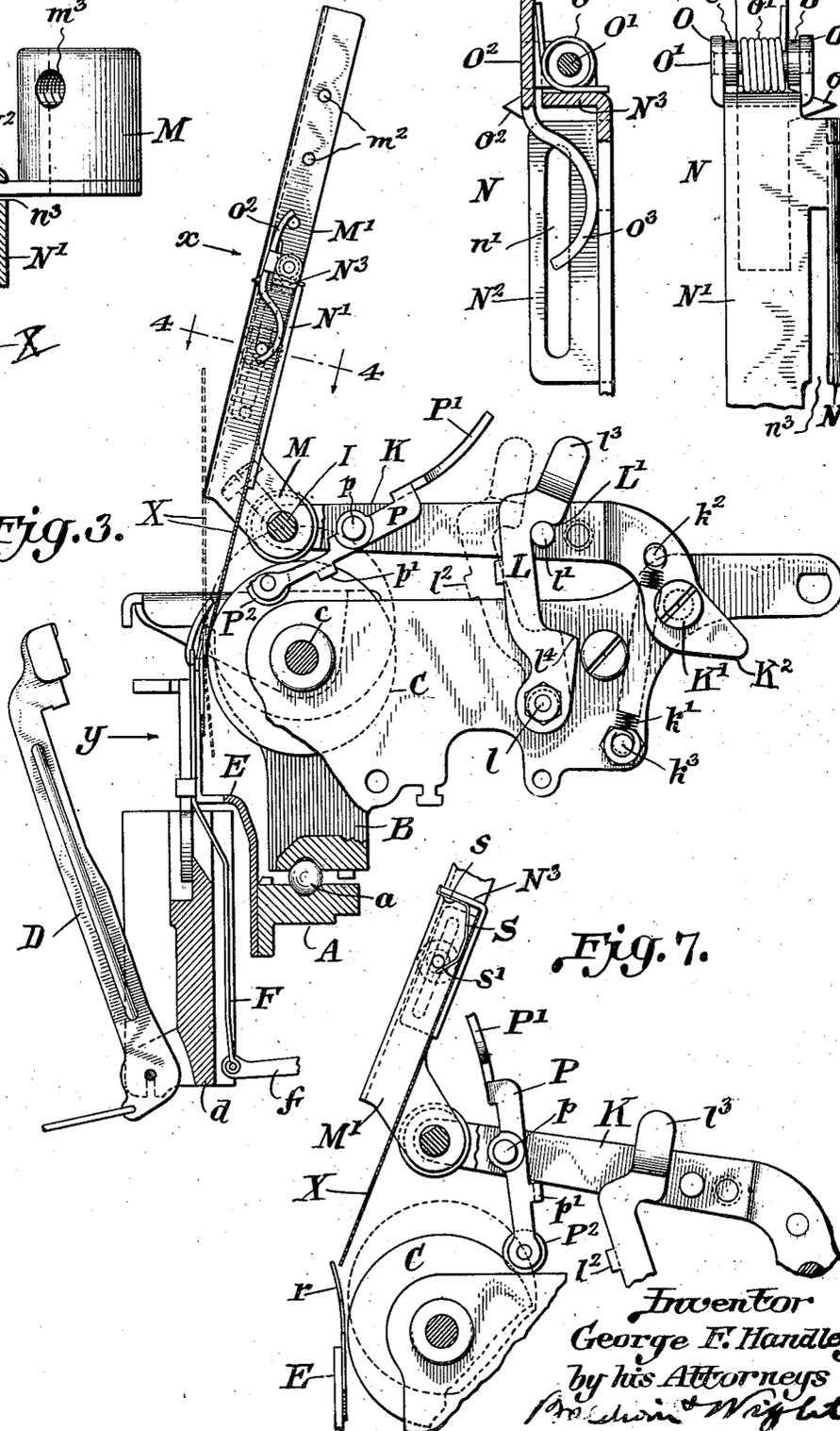


Fig. 7.

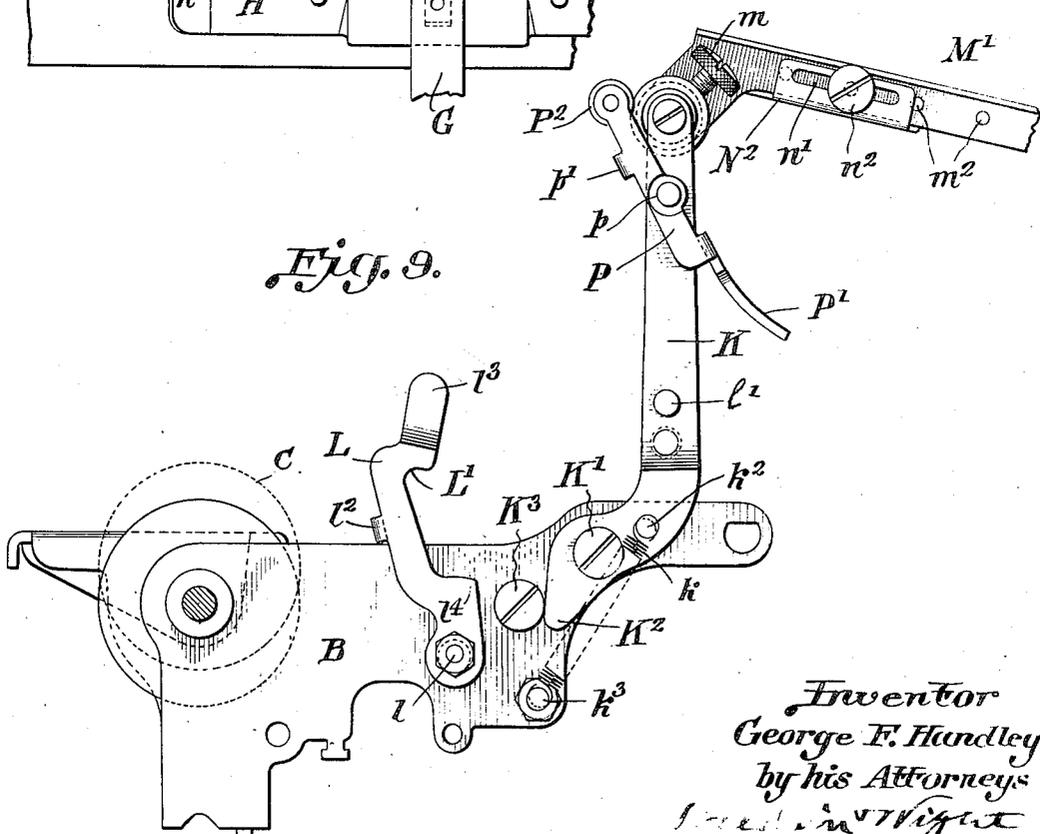
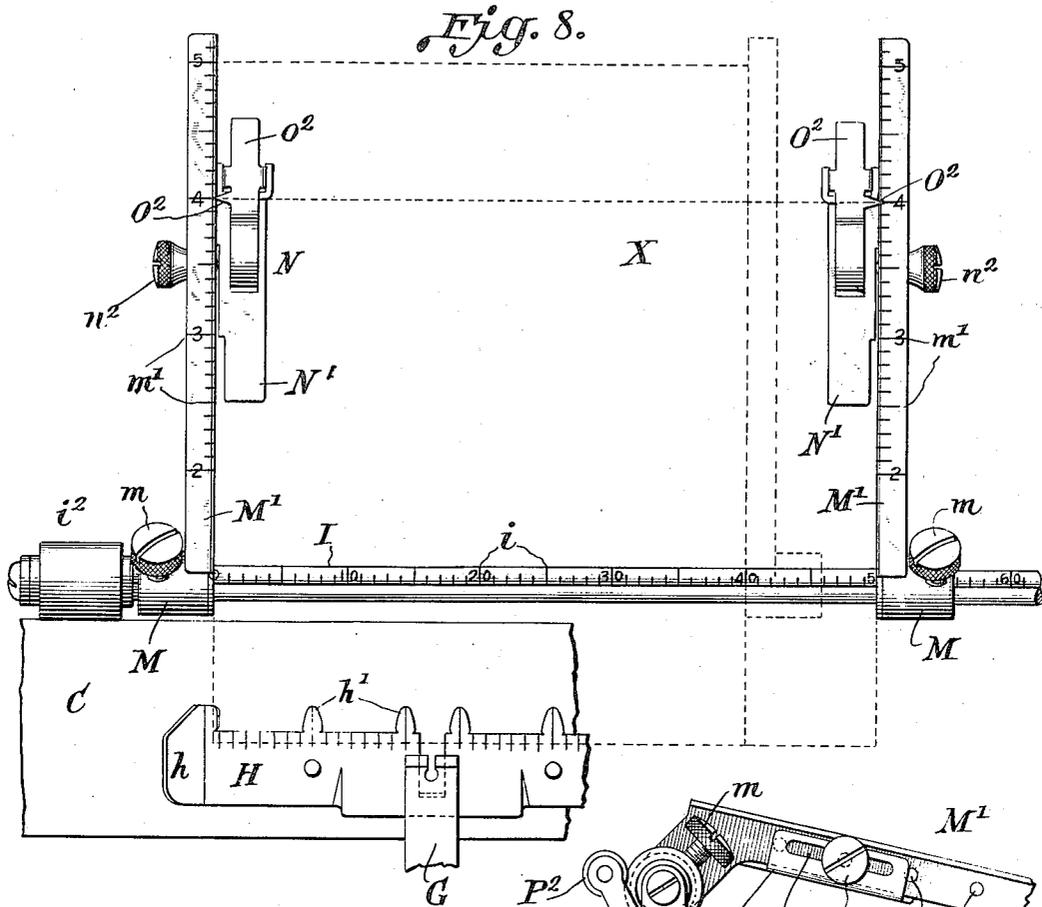
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3 SHEETS—SHEET 3.



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George F. Handley  
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*W. H. W. W. W.*

# UNITED STATES PATENT OFFICE.

GEORGE F. HANDLEY, OF GLENDALE, NEW YORK, ASSIGNOR TO ROYAL TYPEWRITER COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

## CARD HOLDER FOR TYPEWRITING MACHINES.

Application filed March 8, 1922. Serial No. 541,993.

*To all whom it may concern:*

Be it known that I, GEORGE F. HANDLEY, a citizen of the United States, and a resident of Glendale, in the county of Queens and State of New York, have invented certain new and useful Improvements in Card Holders for Typewriting Machines, of which the following is a specification:

This invention relates to card locating and holding devices to be applied to typewriting machines, and is adapted for writing on catalogue index cards where it is necessary to write on the extreme bottom of the cards. Such cards are used in well known filing systems. The device is here illustrated as attached to a Royal standard typewriter, but in many of its aspects is adapted to any type of machine.

An object of my invention is to provide a card holding device that may be mounted near the front of the machine and hold the upper end of the card while it is being written upon near the bottom.

Another object of my invention is to provide such a device with adjustable side and leading edge gages so that cards of various dimensions may be controlled thereby.

Another object of my invention is to mount such a card holding device above the platen and provide means for locking it in operative position as well as permitting it to be thrown rearwardly out of the way when not in use.

Another object of my invention is to provide card holding means mounted on the carriage and movable therewith which cooperate with other means that are normally stationary.

Other objects will be apparent from the following detailed description and the appended claims.

Figure 1 is a detail front view of the device in operative position with parts of the machine omitted and parts broken away.

Figure 2 is a detached view of a card scale of modified form carried by the shift frame.

Figure 3 is a side elevation, partly in section.

Figure 4 is a detail horizontal sectional

view taken on line 4—4 of Figure 3, on an enlarged scale.

Figure 5 is a side view partly in section, of the card holding clip.

Figure 6 is a rear view of said clip. 55

Figure 7 is a side elevation similar to Figure 3, but showing parts in different position and also showing a modified form of card holding clip.

Figure 8 is a front view similar to Figure 1 but showing more clearly the relation of the various scales to each other, and how cards of various sizes may be inserted in the machine.

Figure 9 is a detail side view showing 65 the attachment moved rearward to an inoperative position.

A shift frame A supports by ball bearings *a* a carriage frame B in which is mounted a platen C upon an axle *c* which has the usual knob *c'* at its ends and may be provided with the usual line space mechanism not illustrated. The platen, together with the carriage and shift frame, is shiftable to upper case position as indicated 75 by dotted lines in Figures 3 and 9. Type bars D pivoted in the usual segment *d* strike against the front of the platen through the type guide G. Arms E carried by the shift frame A carry the usual card 80 guiding fingers *e* controlled by finger pieces *e'*. In Figure 1, one card holding finger is shown in operative and the other in inoperative position. The usual ribbon vibrator 85 F is employed connected to operating means *f*. Figures 1 and 3 also show the usual card scale H with the end wings *h* that are outwardly inclined and the upwardly extending fingers *h'*. All these parts are old in the well-known Royal 90 standard typewriter, but so far as my invention is concerned, they may be of any other old or desired construction.

There is illustrated the usual card holding 95 bail I of the Royal machine having graduations *i* and rubber feed rolls *i'*. This bail is carried by arms K pivoted at K' to the rear of the carriage frame B and normally retained in position by springs *k'* connected at one end to studs *k''* on the 100

arms K and at the other end to attaching means  $k^3$  on the carriage frame. When in operative position as shown in Figure 3 the spring  $k'$  lies in front of the pivot  $K'$ , but when the attachment is moved to the rear into inoperative position the spring moves to the rear of the pivot  $K'$  as shown in Figure 9, and holds the device in that position. When the device is moved to the Figure 9 position, a cam end  $K^2$  of the arm K comes against a screw stop  $K^3$  on the carriage frame and thereby limits said rearward movement.

A latch member L is pivoted on an eccentric pivot  $l$  on the carriage frame and has a cam shaped recess  $L'$  adapted to engage a pin  $l'$  on the arm K and lock the device firmly in operative position as shown in Figure 3. The latch member has an offset stop  $l^2$  to limit the forward movement thereof as shown in dotted lines in Figure 3, and a rearwardly inclined end  $l^3$  that not only serves as a handle, but will be engaged by the pin  $l'$  and cammed forward when the device is moved from the inoperative to its forward operative position if the latch happens to lie in its rearward position. A projecting portion  $l^4$  is adapted to engage the screw  $K^3$  and limit movement in the other direction.

Mounted on the card bail I are sleeves M held in adjusted position by set screws  $m$  engaging in threaded openings  $m^3$  and engaging flattened portions on the bail which sleeves carry upwardly extending card holding arms  $M'$  slightly inclined rearwardly in order that the upper case characters may not print or smudge the card when the lower case characters are being used. These arms  $M'$  are angle-shaped as clearly shown, the front faces having identical gradations  $m'$  and the side faces having a plurality of openings  $m^2$  for the purpose hereinafter set forth.

Carried by each arm  $M'$  is a card clip or gage designated as a whole by the reference character N. Figs. 1 and 8 show front views thereof, Figure 6 a rear view, Figs. 3 and 5 side views from the inside, and Fig. 9 a side view from the outside.

This card clip or gage consists of an extended flat portion  $N'$  upon which the card is adapted to rest, provided with a turned up flange  $N^2$  which has a longitudinal slot  $n'$ . The flange  $N^2$  lies along the vertical wall of the arm  $M'$  on the outside thereof, and a set screw  $n^2$  passes through said slot  $n'$  and into one of the openings  $m^2$  to thereby hold the card clip in adjusted position. The portions  $N'$  and  $N^2$  are separated through the greater part of their extent by a slot or bifurcation  $n^3$  as clearly shown in Figure 6. This permits the card clip to be adjusted downwardly far enough to hold very narrow cards, the bifurcation embrac-

ing the portion of the arm  $M'$  which is adjacent to the sleeve M. The portion  $N'$  also has a bent up end  $N^3$  that serves as an end gage for the cards.

Also bent from the portion  $N'$  on either side of the end  $N^3$  are ears O connected by a pin  $O'$ . A clip member  $O^2$  has rearwardly bent ears  $o$  that are mounted on the pin  $O'$  within the ears O. A spring  $o'$  encircles the pivot pin  $O'$  and has one end bearing against the end of the member  $O^2$  on its under side, and the other end bearing against the end  $N^3$ . This spring presses the card engaging portion  $O^3$  of the clip against the member  $N'$  or a card carried thereby. The upper end of the member  $O^2$  may be used as a finger piece to press it away from its holding position when it is desired to release a card. Each clip member  $O^2$  carries a pointer  $o^2$  which cooperates with the gradations  $m'$ .

An arm P is pivoted at  $p$  to the arm K and has a finger piece  $P'$  at one end and a roller  $P^2$  at the other end. It is also provided with a bent off stop  $p'$  which bears against the under side of the arm K when the parts are in the position shown in Figure 7. This device is employed when it is desired to have the card holding device at a further distance from the platen. When the latch L is released, and the finger piece  $P'$  moved forward, the roller engages the top edge of the carriage frame B and cams the card holding frame up to the Figure 7 position. The roller  $P^2$  and the stop  $p'$  are then in such relation to the carriage frame and arm K that the parts will be retained in that position against any accidental movement.

When the device is employed in this position, the modified scale shown in Figure 2 is preferred. This scale R has upwardly projecting fingers  $r$  corresponding to the fingers  $h'$  of the other form, but they are bent forwardly as clearly shown in Figure 7.

Also shown in Figure 7 is a modified form of spring card clip consisting simply of a spring S riveted at  $s$  to the upturned end  $N^3$ . This spring holds the card against the member  $N'$  and has an upturned end  $s'$  permitting the card to be slid under the spring readily.

Cards X of various sizes are indicated in dotted lines in some of the figures, and by full or section lines in Figs. 3 and 7. In Figure 3 the arrows  $x$  and  $y$  indicate the point of view from which Figure 1 is taken.

In the use of the device the card X may have its lower end inserted downward past the holding fingers  $h'$  of the scale, as shown in dotted lines in Figure 3. The upper end of the card is then pushed under the holding fingers  $O^3$  and moved upwardly until it rests squarely against the leading edge gages or abutments  $N^3$ . It then occupies the

position shown in cross section in Figure 3 and is ready for the writing operation.

The card may also be introduced into the machine as indicated in Figure 7 if the modified form of scale is employed, by raising the attachment to the position shown in that figure through use of the lever P, inserting the upper end of the card underneath the holding fingers, and dropping the attachment to normal position. The outwardly turned fingers *r* will guide the lower end of the card to proper position.

The sleeves M may be set as desired and the distance on the scale *z* therebetween will show the width of a card that will just fit between the guides. The two scales *m'* may be employed to gage the positions of the card clips so that successive cards will have the writing thereon at exactly the same position, and these scales also permit the clips to be set so that the line of writing will be parallel to the edge of the card if the upper edge engages both gages N<sup>3</sup>.

Where the device is applied to the Royal standard machine or to other machines in which the carriage frame has a case shift movement, it is to be noted that the scale H with the retaining fingers *h'* will shift together with the card holding attachment, so that both the upper and lower ends of the cards will be firmly held at all times during the writing.

By means of the set screws *n*<sup>2</sup> and the series of openings *m*<sup>2</sup>, the card clips can be adjusted through definite distances, and by means of the slots *n'* a fine intermediate adjustment may be obtained through the use of the same set screws.

While I have illustrated and described my invention in its preferred form, it is obvious that many of the details may be modified without departing from the spirit thereof. A single card holding arm and clip might be used separately, and the attachment might be used with scale members of varying construction. In general, the invention is to be considered as limited only by the scope of the appended claims.

I claim as my invention:

50 1. A card holding device for typewriting machines comprising members pivoted to the carriage, a rod carried by the forward end of said members, sleeves adjustably mounted on said rod, upwardly and rearwardly extending arms supported by said sleeves, a clip member carried by each arm and independently adjustable toward and from the printing line, and means for locking said members in operative position.

60 2. A card holding device for typewriting machines comprising a support mounted on the carriage, upwardly and rearwardly extending arms adjustably mounted on said support, a clip member carried by each arm and independently adjustable toward and

away from the printing line, said clip members gaging and holding the upper end of a card, and devices for engaging the lower end of the card to hold it in printing position.

70 3. A card holding device for typewriting machines comprising a support mounted on the carriage and shiftable therewith, arms carried thereby and extending upwardly tangentially to the platen, means for holding these arms in adjusted positions, a clip member carried by each arm and independently adjustable toward and from the printing line, and means for holding the clips in adjusted position.

80 4. A card holding device for typewriting machines comprising a support having a rod located above the platen when in operative position, upwardly extending arms carried by and adjustable along said rod, a clip member carried by each arm, and means for mounting said clip member at any of a plurality of positions on the arm and for holding it in various adjustments intermediate said positions.

90 5. A card holding device for typewriting machines comprising a frame pivoted to the carriage to move to and from operative position, upwardly extending arms carried by said frame, card clips adjustably mounted on said arms, and means for locking said frame in operative position.

100 6. A card holding device for typewriting machines comprising a frame pivoted to the carriage to move to and from operative position, card holding devices carried thereby, and means for locking said frame in operative position, said means including a latch, an eccentric pivot for said latch, and a pin on said frame engaged by a cam recess in said latch.

110 7. A card holding device for typewriting machines comprising a frame pivoted to the carriage to move to and from operative position, an upwardly extending arm carried by said frame, and adjustable to various positions longitudinally of the carriage, a card holding clip carried by said arm and adjustable toward and from the printing line, and means for locking the clip in adjusted position.

120 8. In a card holding device for typewriting machines into which a card is inserted at the front of the platen, an adjustable card clip comprising a flat portion upon which the card rests, a flange affording means for its attachment to a support, an upturned end against which the card abuts, and spring actuated means which holds the card against said flat portion.

125 9. In a card holding device for typewriting machines, a card clip comprising a flat portion, a flange affording means for the attachment of the clip to a support, an upturned end against which the card abuts, ears

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offset from the flat portion, a pin carried by said ears, and a spring pressed member carried by said pin which holds the card against the flat portion.

5 10. In a card holding device for typewriting machines, a card clip comprising an L-shaped member having an upturned end abutment for the card, a finger pivoted to said member and provided with a pointer, 10 and a spring for holding said finger against a card resting on said L-shaped member.

11. A card holding device for typewriting machines comprising a frame on the carriage, upwardly extending arms carried 15 by said frame, card clips carried by said arms and adjustable toward the printing line, and a card scale stationary as regards longitudinal movement of the carriage and which has relatively long upwardly extending 20 forwardly curved fingers to engage the bottom of the card.

12. A card holding device for typewriting machines comprising a carriage shiftable for case shift, a frame thereon, arms upon 25 said frame and adjustable thereon, card clips carried by said arms and adjustable toward the platen, and a card scale stationary as regards longitudinal movement of the carriage and which has forwardly curved 30 fingers projecting a considerable distance across the printing line, all of said parts being shiftable with the carriage.

13. A card holding device for typewriting machines comprising a frame pivoted 35 to the carriage to move to and from operative position, upwardly extending arms carried by said frame, card clips adjustably mounted on said arms, means for locking 40 said frame in operative position and means for holding said frame in inoperative position.

14. A card holding device for typewriting machines comprising a frame carried by the carriage, upwardly extending arms carried 45 by said frame, card clips adjustably carried by said arms, said clips being slotted to engage the arms and permit adjustment to near the printing point, whereby narrow 50 cards may be held.

15. A card holding device for typewriting machines comprising a support mounted on the carriage, upwardly extending arms adjustably mounted on the support, a clip 55 member carried by each arm and acting to gage and guide a card, and devices for engaging the lower end of the card to direct it into position and hold it when positioned.

16. A card holding device for typewriting machines comprising a support mounted 60 on the carriage, a letter space scale on said support, arms adjustably mounted on said support, a line space scale on each of said arms, and card holding clips carried by said arms and adjustable thereon, the scales en-

abling the adjustment of the card to any line 65 and letter space position.

17. A card holding device for typewriting machines comprising a plurality of clips adjustably carried by the carriage and adapted to hold the upper end of the card firmly, 70 and a holding device mounted on a part of the frame that is fixed against endwise movement and having a plurality of fingers on each side of the center extending across the printing line to hold the lower end of 75 the card firmly during printing on the extreme bottom edge.

18. A card holding device for typewriting machines comprising a plurality of clips adjustably carried by the carriage and 80 adapted to gage and hold the upper end of the card firmly, and a holding device engaging the lower end of the card and provided with a plurality of extensions on each side of the center extending across the printing 85 line to hold the lower edge of the card firmly during printing on the bottom edge thereof.

19. A card holding device for typewriting machines comprising a plurality of arms 90 adjustably mounted on the carriage, a clip adjustably mounted on each arm and adapted to engage and hold the upper edge of the card firmly, and a holding device fixed 95 against longitudinal movement and provided with a plurality of extensions on each side of the printing point which extend across the printing line to hold the card firmly and permit printing on the lower edge.

20. A card holding device for typewriting 100 machines comprising a plurality of clips adjustably carried by the carriage to hold the upper edge of the card firmly, and a scale carried by the frame and having a plurality of projections extending across the print- 105 ing line to hold the lower edge of the card firmly and permit printing close to said lower edge.

21. A card holding device for typewriting machines comprising a plurality of adjust- 110 able holding devices for the upper edge of the card carried by the carriage, and a scale carried by the frame having outwardly turned ends to permit the insertion of the card at the front of the machine, and also 115 having a plurality of projections on each side of the printing point extending across the printing line to hold the lower edge of the card firmly during printing on the bot- 120 tom thereof.

22. A card holding device for typewriting machines comprising a plurality of adjust- 125 able holding devices for the upper edge of the card carried by the carriage, and a holding device for the lower edge of the card having a plurality of extensions that extend across the printing line to hold the lower edge firmly while printing thereon, all

of said holding devices moving together during case shift movements of the carriage.

23. A card holding device for typewriting machines comprising a plurality of adjustable holding devices for the upper edge of the card carried by the carriage, and a holding device for the lower edge of the card permitting the insertion thereof at the

front of the machine free from engagement of the usual feed rolls, said device having portions extending across the printing line to hold the lower edge against displacement while being printed upon.

In testimony whereof, I have hereunto subscribed my name.

GEORGE F. HANDLEY.