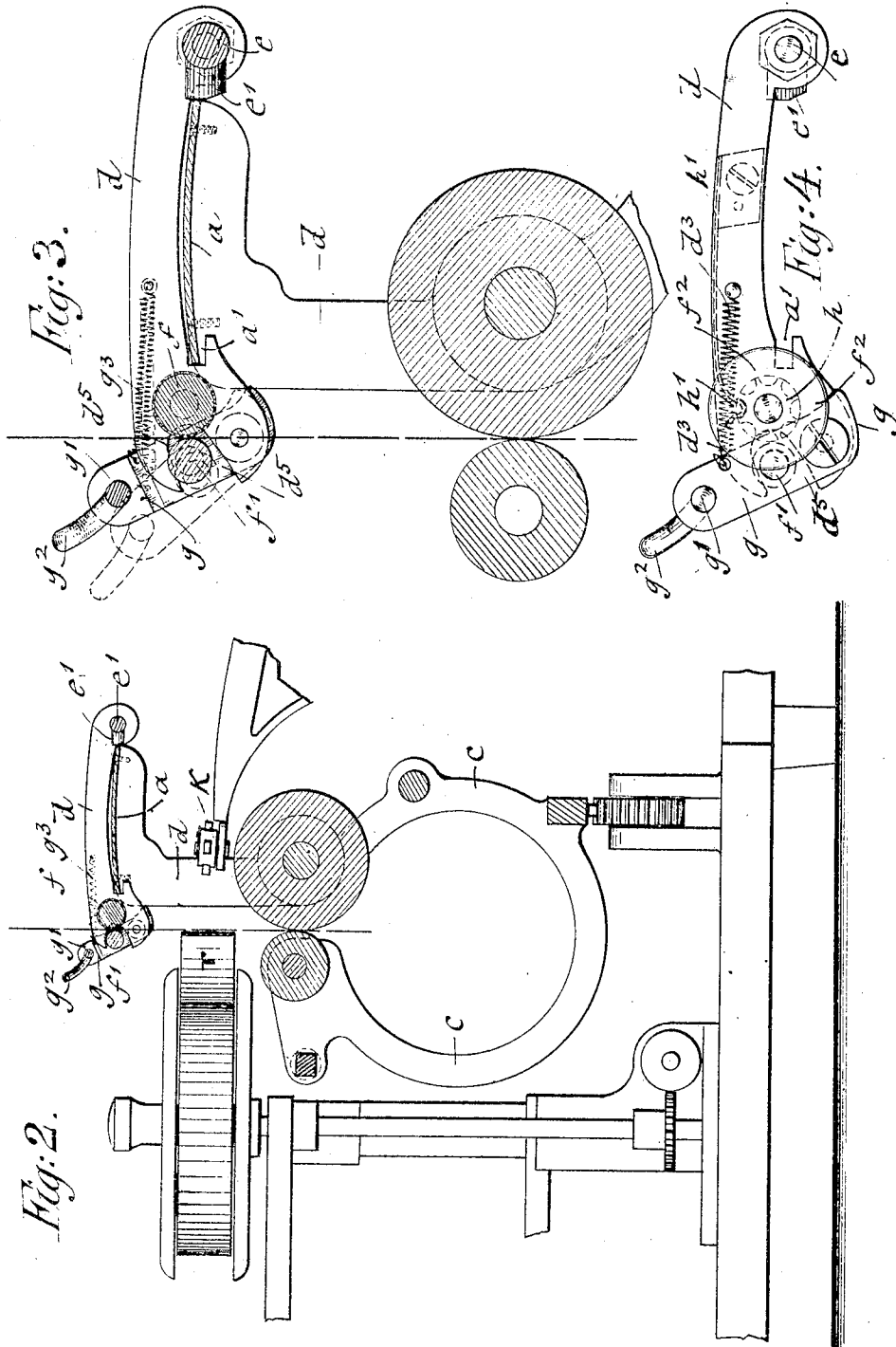


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CARD HOLDING ATTACHMENT FOR TYPE WRITING MACHINES.
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1,034,381.

Patented July 30, 1912.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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CARD-HOLDING ATTACHMENT FOR TYPE-WRITING MACHINES.

1,034,381.

Specification of Letters Patent.

Patented July 30, 1912.

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To all whom it may concern:

Be it known that I, WILLIAM BANTA, a citizen of the United States of America, residing in New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Card-Holding Attachments for Type-Writing Machines, of which the following is a specification.

10 This invention relates to an improved card-holding attachment for typewriting machines, and more particularly to card-holding devices adapted especially for use with the Hammond typewriting machines, to be used by librarians, bookkeepers, and others using card-systems for title and other entries.

The object of the invention is to provide a card-holding attachment by which cards are quickly inserted and held in position for the printing of the title and entries, etc., and to be readily removed after the printing is accomplished, said card-holding attachment being conveniently applied to or removed from the ordinary erasing-plate of the typewriting machine whenever the same is to be used for printing on individual cards of card-systems.

The invention consists of a card-holding attachment for typewriting machines which comprises supporting arms having means for being placed in position on the erasing-plate of the typewriting machine, auxiliary rollers supported on said arms for moving the card into proper position for printing in downward direction to the feed-rollers of the carriage and means for moving one of the guide-rollers for the convenient insertion and removal of the cards.

40 In the accompanying drawings, Figure 1 represents a plan-view of my improved card-holding attachment, shown as applied to Hammond typewriting machines, Fig. 2 is a side-elevation of the cooperating parts of the typewriter, showing the card-holding attachment and the paper-rollers of the carriage in vertical transverse section, Fig. 3 is a vertical transverse section, on line 3-3, Fig. 1, showing the attachment on a larger scale, and Fig. 4 is a side-elevation of the card-holding attachment as detached from the typewriting machine.

Similar letters of reference indicate cor-

responding parts throughout the several figures of the drawings.

Referring to the drawings, *a* represents the erasing-plate of a Hammond typewriting machine, *c* the carriage, *b* the hammer, and *r* the ribbon of a Hammond typewriting machine. The erasing-plate *a* is made slightly convex and serves for guiding the paper in the usual manner into the paper-fed rollers of the carriage *c*. To the erasing-plate *a* is applied the card-holding attachment by means of main-arms *d* which are provided at their lower front-portions with a recess *a'* for engaging the front-edge of the erasing-plate *a* while a beveled center-lug *c'* on a transverse rear-rod *e* which connects the rear-ends of the arms *d*, is pressed down against the rear-edge of the erasing-plate so as to exert a clamping action on the same and hold the main-arms *d* of the attachment rigidly in position on the erasing-plate while permitting the removal of the same by lifting the clamping lug of the rod *e* out of engagement with the rear-edge of the erasing-plate *a*. The arms *d* are provided at their front-portions with bearings for a larger feed-roller *f*, which is knurled over its entire surface while a smaller smooth roller *f'* is supported in bearings of upwardly-inclined arms *g*, *g* which are pivoted at their lower ends to the lower downwardly-extending portions of the main-arms *d*, the upper ends of the pivoted arms *g* being connected by a transverse rod *g'* that is formed at its middle portion into a handle *g''* so as to move the front or presser-roller *f'* away from the knurled roller *f*. The presser-roller *f'* is held in contact with the knurled roller *f* by means of helical springs *g''* which are attached at their rear-ends to the main-arms *d* and at their front-ends to the pivoted arms *g*. On the shaft of the knurled roller *f* is arranged a small ratchet-wheel *h* which is engaged by a rear-end to one of the main-arms *d* so as to feed the card for printing and prevent the turning of the knurled roller *f*. The main-arms *d* are recessed at their front-ends, as shown at *d''* so as to permit the free inward swinging of the smooth presser-roller *f'* into contact with the card to be printed. The shaft of the knurled roller *f* is extended, preferably at the right-hand side, beyond

the erasing-plate of the typewriting machine and provided with a knurled knob f^2 by which the knurled roller can be turned so as to feed the card into the proper position for printing.

My improved card-holding attachment is operated as follows: When it is desired to place the device on the typewriting machine, the recesses at the front-portions of the main-arms are placed against the front-edge of the erasing-plate and the transverse rear-rod with its clamping lug pressed in downward direction against the rear-edge of the erasing-plate, as shown in Figs. 2 and 3, so that the main-arms of the attachment are firmly held in position on the erasing-plate of the machine. The pivoted arms g are next pressed back by means of their handle-rod against the tension of their springs so that the card to be printed on can be inserted between the feed-rollers f, f' of the attachment. The card is moved downwardly by turning the knurled roller so that its lower end passes between the paper feed-rollers on the carriage and assumes the proper position for printing. The feeding of the card for the different lines of type to be printed thereon is then accomplished by the action of the feed-rollers of the typewriting machine in the usual well known manner. When it is desired to print on the lower portion of the card, it is moved clear of the feed-rollers of the carriage and held in position for printing by the auxiliary rollers f, f' of the attachment, being then moved successively in upward direction by turning the knob of the knurled roller f , the spacing between the lines being produced by the ratchet on the shaft of the knurled roller and the check-pawl. When the necessary matter has been printed on the card, the same is removed by pressing on the handle-rod of the pivoted arms and moving the smooth presser-roller away from the knurled roller so that the card can be lifted out of the printed position and placed into its proper place in the box of the card-system or other place of use. When the typewriting machine is to be used in the ordinary manner, the card-holding attachment is removed by releasing the lug of the clamping-rod from the rear-edge of the erasing-plate and then removing the recessed front-portions of the main-arms from the front-edge of the erasing-plate whereby all the parts which comprise the attachment are removed together, ready for use when the card is again required. The card-holding device may also be used with other typewriting machines in which a paper-feed plate is available for placing the attachment into position for use.

I claim:

1. The combination, with the erasing-plate of a typewriting machine, of a card-holding attachment comprising supporting main-arms, means for attaching said arms to the erasing-plate, feed-rollers for the card arranged at the front-portions of the main-arms, and means for moving one of the feed-rollers away from the other feed-roller for inserting the card.

2. A card-holding attachment for typewriting machines, comprising supporting main-arms, means for attaching the same to the erasing-plate of a typewriting machine, and card-feeding rollers located at the front-ends of the main-arms and comprising a knurled roller and a presser-roller, and means for moving said presser-roller away from or toward the knurled roller.

3. A card-holding attachment for typewriting machines, comprising supporting main-arms, means for attaching the same to the erasing-plate of a typewriting machine, a knurled roller supported in the front-ends of the main-arms, spring-actuated arms pivoted to the front-ends of the main-arms, a presser-roller supported in said pivoted arms, a handle-rod connecting the upper ends of said pivoted arms for moving the presser-roller away from the knurled roller, and means for rotating the knurled roller.

4. A card-holding attachment for typewriting machines, comprising supporting main-arms, means for attaching said arms to the erasing-plate of the typewriting machine, connecting rods for said main-arms, card-feeding rollers arranged at the front-ends of the arms, one roller having a knurled surface, the other a smooth surface, spring-actuated arms pivoted to the lower front-portions of the main-arms, said arms supporting the presser-roller, a transverse handle-rod connecting the upper ends of said pivoted arms, a knob on the shaft of the knurled roller for rotating the same, and a ratchet-wheel on the shaft of the knurled roller and check-pawl for the same.

5. A card-holding device comprising a frame having means for securing it to the erasing-plate of a typewriter, a knurled roller and a clamping roller movable toward and from the knurled roller, said rollers being carried by said frame.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

WILLIAM BANTA.

Witnesses:

PAUL GOEPEL,
JOHN MURTAGH.