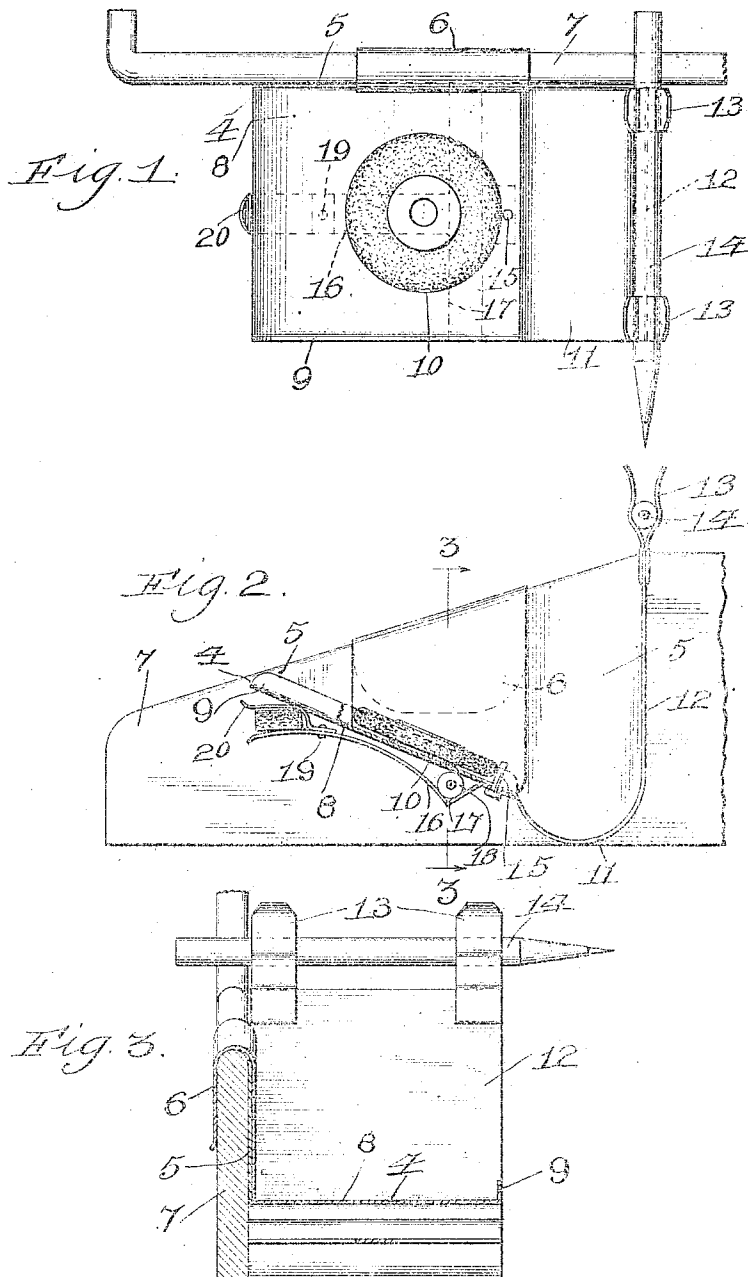


I. H. MALLIN.
 TRAY ATTACHMENT FOR TYPE WRITING MACHINES.
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953,851.

Patented Apr. 5, 1910.



Witnesses:
 R. A. White.
 H. R. L. White

Inventor
 Isaac H. Mallin
 By J. G. Elliott
 Attorney

UNITED STATES PATENT OFFICE.

ISAAC H. MALLIN, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE GREGG PUBLISHING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

TRAY ATTACHMENT FOR TYPE-WRITING MACHINES.

953,851.

Specification of Letters Patent.

Patented Apr. 5, 1910.

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To all whom it may concern:

Be it known that I, ISAAC H. MALLIN, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Tray Attachments for Type-Writing Machines, of which the following is a full, clear, and exact specification.

10 This invention relates to improvements in tray attachments for typewriting machines for sustaining, within convenient reach of the operator for the typewriting machine, a rubber eraser, paper fasteners, pins and
15 other small articles, and also a lead pencil or pen holder, as may be, in such a manner that they are not liable to accidental displacement, and convenient of access to the operator.

20 The prime object of my invention is an attachment for typewriters, provided with an inclined tray supporting the commonly used disk eraser in a position whereby it may be grasped between the thumb and index
25 finger of the operator and used without changing the position of either of these members, which eraser will, by gravity when inserted at a point forward of its normal resting position in the tray, automatically
30 move to its resting position.

A further object of my invention is to have such a tray so arranged as to provide a support for a holder for a bar eraser, adjacent the forward end thereof, within convenient reach of the operator, and, if desired, also for a pen holder, or a reserve
35 lead pencil, convenient of access to the operator.

Another object of my invention is to have
40 such an attachment further provided with a receptacle for paper fasteners, pins and other small implements, unobstructed by a circular eraser forward thereof.

A still further object of my invention is
45 to provide such an attachment with means sustaining a lead pencil or knife eraser against accidental detachment, within the direct line of vision of the operator, and from which the said lead pencil or knife
50 eraser is conveniently removable.

With these ends in view, my invention finds embodiment in certain features of novelty in the construction, combination and arrangement of parts by which the said ob-

jects and certain other objects are herein- 55 after attained, all as fully described with reference to the accompanying drawings, and more particularly pointed out in the claims.

In said drawings: Figure 1 represents a 60 top plan view of a typewriter attachment embodying my invention. Fig. 2 is a central longitudinal section thereof; and, Fig. 3 is a transverse section on the line 3-3 of Fig. 2, looking in the direction of the ar- 65 rows.

Similar characters of reference indicate the same parts in the several figures of the drawings.

4 indicates the bed plate of the attach- 70 ment provided with a triangular shaped side piece 5 at one edge, and with a hook portion 6, by means of which the attachment may be removably secured to and supported by the side bar 7 of a typewriter ma- 75 chine adjacent the key board.

The bed plate 4 has a straight inclined portion 8 provided with a narrow flange 9, extending the length of the inclined portion 8, for supporting a disk eraser 10, as 80 hereinafter described.

Rearward of the inclined portion 8 is a downwardly grooved open end receptacle 11. Projecting upward from the rear side of which receptacle is an end plate 12 termi- 85 nating in a plane, with the highest portion of the side piece 5, bent from or otherwise joined thereto; to the upper edge of which end plate 12 is secured spring holders 13-13, of such a construction and distance apart as 90 to retain against accidental detachment a lead pencil 14 or pen holder, as may be.

The tray formed by the inclined portion of the bed plate is of a length substantially greater, and somewhat wider, than the 95 diameter of the disk eraser, and its inclination sufficient for the eraser, when placed toward the forward edge thereof, to move by gravity to contact with a stop pin 15 passing through the bottom of the tray ad- 100 jacent the paper fastener, etc., receptacle 11. The narrowness of the flange being such that the operator may grasp the eraser with the thumb and index finger and remove it from the tray without such flange interfer- 105 ing with any portion of the hand when doing so, and with the result that the eraser may be taken hold of and held between the

thumb and index finger in the same position that it is when the operator is using it. The stop pin 15 also serves as a means for securing to the bed plate of the eraser holder a spring plate 16, provided at a point near said pin with a bend 17, forming a clasp for a pen holder 18, or may be for a reserve pencil, by removably holding such an article against the bottom of the inclined plate 8.

The spring plate 16 projects on substantially an arc of a circle from the angular bend 17 to a point approximately immediately below the forward edge of the bed plate 4, and has secured to it, by a rivet 19, a bent tongue 20, which, together with the forward end of the spring plate 16 constitute a spring fork between which to secure and detachably hold a block eraser conveniently accessible to the operator of the machine.

A tray such as above described may have its receptacle compartments formed from a single sheet of metal, with the adjacent edges of the higher side and end flange rigidly secured together either by solder, or by laps, and is, therefore, very cheap of construction, which cheapness also extends to those portions forming clasps for lead pencils and pen holders, and for bar erasers, but of more importance is the fact that it is adapted for holding against accidental detachment substantially every implement necessary to be used in connection with the operation of a typewriter, and in such a manner that the rapidity with which they are used, owing to the accessibility substantially promotes typewriting work.

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

1. An attachment for typewriters comprising in combination an inclined support open at its forward and elevated end, a stop pin at its lower end, said support having a greater length than the diameter of a disk eraser, a narrow flange at the outer edge of said support maintaining said eraser against lateral displacement, and providing accessibility thereto, and means removably securing said attachment to a side bar of a typewriting machine adjacent the end of the

key board thereof; substantially as described.

2. A typewriter attachment comprising in combination an inclined support for a disk eraser, a shallow receptacle for pins, paper fasteners, etc., rearwardly thereof and projecting in a plane below said support, and a narrow flange at the outer edge of said support promoting accessibility to the eraser, substantially as described.

3. A typewriter attachment comprising in combination an inclined support for a disk eraser having a length substantially greater than the diameter of said eraser, a stop at the lower end of said support, and a shallow receptacle adjacent said stop, which receptacle projects in a plane below said support, substantially as described.

4. A typewriter attachment comprising in combination an inclined support for a disk eraser open at its upper end and provided with a stop pin adjacent its lower end, a spring clasp for other implements secured beneath the inclined support by said stop pin, and means for removably securing said attachment to the side bar of a typewriting machine adjacent the end of the key board thereof, substantially as described.

5. A typewriter attachment comprising in combination an inclined support for a disk eraser, a spring clasp device secured to the under side thereof, and a paper fastener and pin, etc., receptacle adjacent the rear end of said support and clasp device, substantially as described.

6. A typewriter attachment comprising in combination an inclined support open at its forward end, a stop device at the rear end, a receptacle rearwardly thereof depressed in a plane below the rear end of said support, an end wall rising above said receptacle, and an implement clasp device secured to and rising above said end wall, substantially as described.

In witness whereof, I have hereunto set my hand and affixed my seal, this 27 day of November A. D. 1909.

ISAAC H. MALLIN. [L.S.]

Witnesses:

F. E. BROM,
JNO. G. ELLIOTT.