

(No Model.)

F. M. CARTHY.
ATTACHMENT FOR TYPE WRITING MACHINES.

No. 491,767.

Patented Feb. 14, 1893.

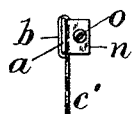


Fig. 2.

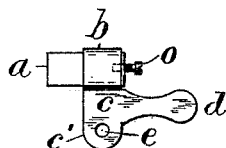


Fig. 1.

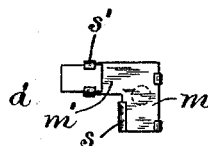


Fig. 5.

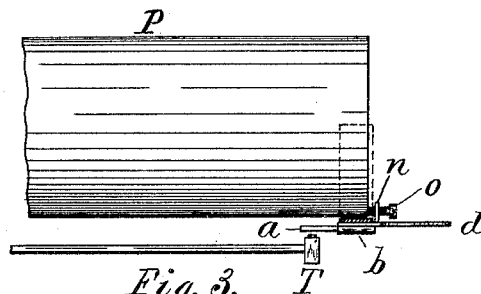


Fig. 3.



Fig. 6.

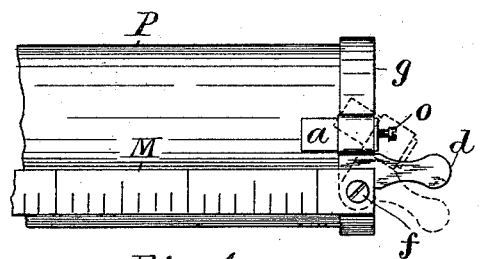


Fig. 4.

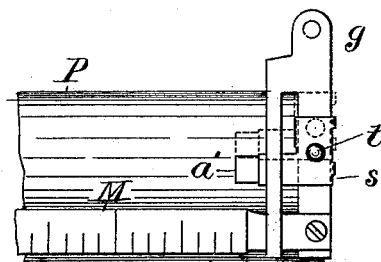


Fig. 7.

Attest:
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UNITED STATES PATENT OFFICE.

FLORENCE M. CARTHY, OF ORANGE, NEW JERSEY, ASSIGNOR TO THE AMERICAN WRITING MACHINE COMPANY, OF HARTFORD, CONNECTICUT.

ATTACHMENT FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 491,767, dated February 14, 1893.

Application filed October 14, 1892. Serial No. 448,804. (No model.)

To all whom it may concern:

Be it known that I, FLORENCE M. CARTHY, a subject of the Queen of Great Britain, residing at Orange, Essex county, New Jersey, have invented certain new and useful Improvements in Attachments for Type-Writing Machines, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of this invention is to prevent the successive printing of several characters at one point upon the paper where the feed is interrupted at the end of a line and the carriage ceases to move; and the invention consists essentially in a shield secured to the paper guide or to some other suitable part of the machine in the path of the type and adjacent to the platen.

It has long been customary to apply an alarm bell to typewriters in order to warn the operator of the approach of the end of each line; but much inconvenience has been caused by the accidental disregard of this alarm by the operator, and the arrival of the carriage at the end of its feed in the middle of a word. Such condition frequently causes the successive printing of the letters forming the remainder of the word in a single space, thereby forming an ineradicable blot upon the paper at the end of the line.

By the employment of my invention, one or more spaces at the end of each line are protected from the direct contact of the type by means of the shield, which receives the several impulses of the type that may be applied after the carriage ceases to move.

My invention also provides means for removing the shield from its normal or operative position, when desired, to apply a final character or characters, such as the hyphen or other symbol.

In the annexed drawings, Figure 1 is a view of the under side, and Fig. 2 an end view of the attachment in a form suitable for application to the type of machine known as the "calligraph;" Fig. 3 is a side view of the right hand end of the platen of such a machine and the adjacent shield applied to the paper guide, the latter being in section adjacent to the shield with its outer portion indicated by dotted lines. Fig. 4 is a view taken from the under side of the members shown in Fig. 3.

Fig. 5 is a plan and Fig. 6 a side view of the attachment in a desirable form for application to a "Remington" machine; and Fig. 7 is a bottom view of the right hand end of the platen and paper guide of a "Remington" machine provided with my improvement.

In the construction shown in Figs. 1 to 4 inclusive, the shield *a* consists in a strip of soft india rubber, leather, or other suitable material, with its outer end secured within the socket *b* formed upon and integral with the sheet metal holder *c*. The holder is provided with a finger or handle *d* projected therefrom on the opposite side from the shield, and with a pivot hole *e* by which it may be fastened upon the machine. Such holder is shown provided also with a transversely projecting ear *n* sustaining an adjusting screw *o* adapted to bear against the end of the platen to serve as an adjustable stop when the shield is shifted into its normal position, as indicated in full lines in the drawings. The holder is pivotally secured upon the carriage of the machine by interposing the perforated ear *c'* between the end of the scale *M* and the paper guide *g* at the right hand end of the roller platen *P*, and inserting the screw *f* through such members to secure them together.

In the construction illustrated in Figs. 5, 6 and 7, the body *m* of the holder is provided at the edges with ears *s* bent over the same to form guides fitted to the edges of the paper guide *g'*, and is provided with a transversely projecting portion *m'* having ears *s'* similarly bent to grasp the shield *a'* of yielding material. A knob or handle *t* is provided upon the under face of the holder by means of which the shield may be shifted out of the path of the type to insert a final character or characters in the last letter space or spaces which had previously been shielded thereby.

By the employment of a material of the necessary stiffness and other desirable qualities for the shield, the separate holder may be dispensed with; but I consider the construction shown herein to be superior to such form of the invention. As my attachment is obviously applicable to any class of typewriting machines, I have used the term "platen" herein to denote broadly the backing for the paper during its contact with the type.

The shield is shown herein of a size suit-

able for covering only a single space, but the dimensions may obviously be varied to the desired extent to suit the requirements of individual operators.

5 The present invention differs from the mere paper finger projected from the carriage adjacent to the platen heretofore employed to hold the paper in contact with such platen, in its arrangement upon the carriage to cover
10 the last letter space or spaces of the platen so as to automatically intercept the type at the printing point; and is formed also of a material suitable to prevent the injury of the type when arresting the motion of the same.

15 Having thus set forth the invention, what I claim herein and desire to secure by Letters Patent is,—

1. In a typewriting machine, the combination with the platen and type, of a shield arranged coincident with the last letter space
20 of the platen; whereby when the said letter space is brought in line with the printing point of the type said shield stands as a barrier to the impression of the type.

25 2. In a typewriting machine, the combination with the platen and type, of a shield connected to travel with the platen and automatically intercept the type at the printing point; whereby the type impressions are prevented from being made one upon another.
30

3. In a typewriting machine, a traveling shield arranged to intercept the type at the printing point simultaneously with the arrival
35 of the platen at the end of the line, and thus prevent the type from impressing the paper thereat.

4. The combination with the platen and type, of a traveling and independently-movable shield; whereby after stoppage of the
40 platen the shield may be moved by hand to permit the insertion of an additional character.

5. The combination, with a typewriting machine provided with a suitable platen, of a
45 shield pivoted upon the machine and projected into the path of the type adjacent to the platen, substantially as and for the purpose set forth.

6. The combination, with a typewriting machine having a suitable platen and a paper
50 guide adjacent thereto at the end of the same, of a shield pivoted to the paper guide and projected inward therefrom in the path of the type and provided with an outwardly projecting
55 finger for shifting the same, substantially as herein shown and described.

7. The combination, with a typewriting machine having a roller platen, and a paper guide
60 at the end of the platen and adjacent thereto, of a shield pivoted to the paper guide and projected inward therefrom in the path of the type, the same being provided with an out-

wardly projecting finger and a transversely projecting ear for engagement with the end
65 of the platen, as and for the purpose set forth.

8. The combination, with a typewriting machine having a roller platen, and a paper guide
70 at the end of the platen and adjacent thereto, of a shield pivoted to the paper guide and projected inward therefrom in the path of the type, the same being provided with an outwardly projecting finger and a transversely
75 projecting ear having an adjusting screw applied thereto, as and for the purpose set forth.

9. The attachment for typewriting machines which consists in a shield formed of
80 yielding material fixed to a holder provided with means for securing the same to the paper guide of the machine, as and for the purpose set forth.

10. The attachment for typewriting machines which consists in the shield *a*, and the holder *c* with pivot hole *e*, as and for the purpose set forth.

11. The attachment for typewriting machines which consists in the holder *c* having
85 the socket *b* and the pivot hole *e* adjacent thereto, and the shield *a* having one end secured within the socket, as herein shown and described.

12. The attachment for typewriting machines which consists in the holder *c* with the
90 socket *b* and pivot hole *e* adjacent thereto, the shield *a* having one end secured within the socket and the other end projected from one side of the holder, and the finger *d* projected
95 from the opposite side of the holder, substantially as shown and described.

13. The attachment for typewriting machines which consists in the holder *c* with the
100 socket *b*, the pivot hole *e* adjacent thereto, and the transversely projecting ear *n*, the shield *a* having one end secured within the socket and the other end projected from one side of the holder, and the finger *d* projected
105 from the opposite side of the holder, as and for the purpose set forth.

14. The attachment for typewriting machines which consists in the holder *c* with the
110 socket *b*, the pivot hole *e* adjacent thereto, and the transversely projecting ear *n* sustaining the adjusting screw *o*, the shield *a* having one end secured within the socket and the other end projected from one side of the holder, and the finger *d* projected from the
115 opposite side of the holder, as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FLORENCE M. CARTHY.

Witnesses:

H. J. MILLER,
E. F. KINSEY.