

(No Model.)

T. H. BURCHELL.
ATTACHMENT FOR TYPE WRITING MACHINES.

No. 547,513.

Patented Oct. 8, 1895.

Fig. 1.

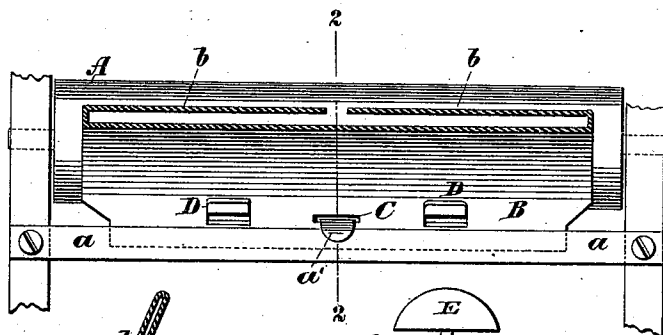


Fig. 2.

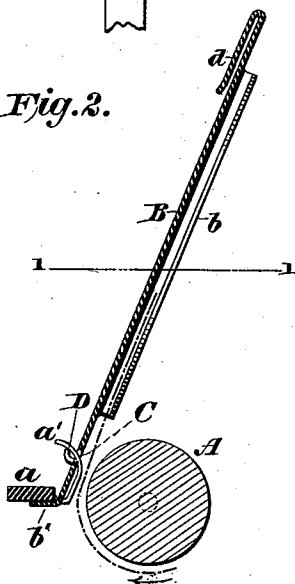


Fig. 3.

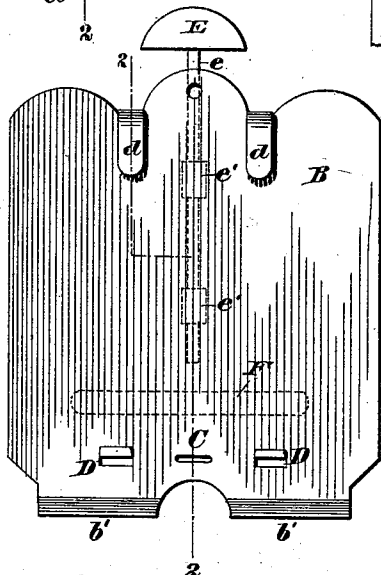


Fig. 4.

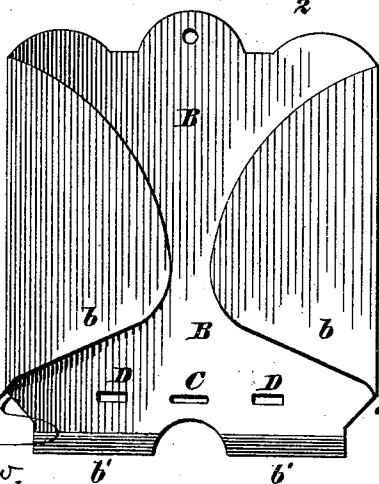
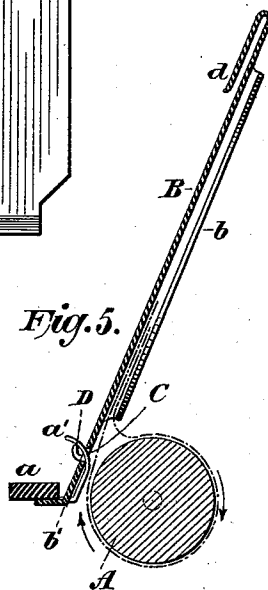


Fig. 5.



WITNESSES:

Gustave Dietrich
Herman Gustow,

INVENTOR

Thomas Henry Burchell
BY *Wm. O. Bell*
ATTORNEY.

UNITED STATES PATENT OFFICE.

THOMAS HENRY BURCHELL, OF NEW YORK, N. Y.

ATTACHMENT FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 547,513, dated October 8, 1895.

Application filed February 1, 1895. Serial No. 536,902. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HENRY BURCHELL, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Attachments for Type-Writing Machines, of which the following is a specification.

In all type-writing machines, as far as I am informed, the written or printed sheet is exposed to view as it passes through and out of the machine, and persons standing near the machine are able to read what is being written or printed. This is objectionable, and I have sought to remedy the defect by an attachment designed, primarily, to conceal from view the written or printed matter as it passes through, out of, or into the machine, and, further, to provide a copy-holder conveniently arranged in front of the operator, which may be used to support a "manuscript" in case it is desirable.

With these and other ends in view the invention contemplates a receptacle comprising a concealing-plate adapted to be attached to a type-writing machine in front of the usual cylinder and having guides arranged upon the back thereof, between which and the concealing-plate the sheet containing the type-written matter passes and is thereby hidden from view behind said concealing-plate, and suitable supporting and fastening devices, hereinafter fully described, arranged on the face of the concealing-plate and adapted to hold the manuscript to be copied.

The invention consists also of certain details of construction and arrangement of parts, which will be fully described, and claimed hereinafter.

In the accompanying drawings, Figure 1 is a horizontal sectional view on the line 1 1 of Fig. 2, and showing the arrangement of the attachment on the machine. Fig. 2 is a vertical sectional view on the line 2 2 of Figs. 1 and 3. Fig. 3 is a plan view, and Fig. 4 is a rear view of the attachment. Fig. 5 is a view similar to Fig. 2 and showing the arrangement and movement of the sheet when it is printed on both sides.

Referring to the drawings, in which like

letters of reference denote corresponding parts in all the figures, A designates the cylinder, *a* the front bar of the frame, and *a'* the paper-guide, all of which are found in the type-writing machines in general use, and particularly in what is commonly called the "Remington" machine.

The attachment is preferably struck up from a single sheet of metal, although I do not care to limit myself to any particular material or method of manufacturing the attachment. It consists, substantially, of a receptacle to receive the written or printed sheet, and comprises a concealing-plate B, having its sides bent into a position substantially parallel with the face of said plate to form guides *b b* for the written or printed matter coming from the machine. Extensions *b' b'* are arranged on the lower edge of the plate and they are bent or curved forward in order that they may fit properly under the front bar *a* of the machine. A slot C is located above and between the extensions *b'* and adapted to receive the end of the paper-guide *a'* when the attachment is arranged in place and hold the same rigidly in its proper position. This slot may be of any desired length.

The attachment is generally made without movable or locking parts, and may be easily and quickly arranged on or removed from the machine. The extensions *b'* are inserted in the machine between the cylinder A and the front bar *a* in such a manner that the bent or curved ends of said extensions fit snugly under the front bar, and at the same time the concealing-plate is so manipulated that the end of the paper-guide *a'* will enter the slot C. By this means the attachment is held securely in place and in the proper position, so that the paper, as it is printed and comes from the cylinder, will move up between the concealing-plate and the guides *b b*. The written or printed side of the paper is ordinarily exposed to view and even visible and readable at a considerable distance from the machine; but with this attachment the writing or printing is entirely concealed behind the plate B and made absolutely private. The operator, however, may examine the line being written or printed on those machines in which said

line is ordinarily concealed from view by the arrangement and mechanism of the machine by simply manipulating the carriage in the usual manner; and on those machines in which the line being written or printed is ordinarily exposed to view said line may be exposed when my attachment is used by removing, tipping, or otherwise manipulating the attachment.

On each side of the slot C a support D is struck up from the concealing-plate, which may be used to support anything to be copied, if so desired. In order to hold the manuscript or "copy" in place, I also provide fingers *d d*, which are suitably arranged in some convenient place on the concealing-plate and which prevent the manuscript from being displaced accidentally.

I am aware that changes in the form and proportion of parts and details of construction of my invention may be made without departing from the spirit or sacrificing the advantages thereof, and I therefore desire to make all such changes as fairly fall within the spirit of the invention.

As hereinbefore stated, I prefer to construct the device out of a single sheet of metal; but it is obvious that it may also be made in separate pieces and of different materials with perfect success. I have found aluminium a desirable material of which the device may be constructed, as it combines lightness and stiffness and can be easily worked.

The length of the attachment is generally proportioned to the size of the paper used, so that when the sheet has been printed the upper end thereof will just extend beyond the top of the concealing-plate. I also provide an adjustable cap-piece E, which is arranged on the front or back of the concealing-plate or on the guides *b*, as desired, and which may be projected upward to support the top of a sheet of manuscript longer than the concealing-plate. One or more of these cap-pieces may be employed, but in Fig. 3 I have illustrated only one, which is mounted upon a rod *e*, secured in a sleeve or sleeves *e'*. To strengthen the concealing-plate and maintain its shape I may, if necessary, secure a horizontal strip F to the plate, as shown in dotted lines in Fig. 3. The guides *b* may be brought into contact to form, with the concealing-plate, a complete pocket to receive the sheet of written or printed matter. The attachment may be ornamented in any preferred manner and the concealing-plate and other parts may be perforated with small holes, which will not expose the writing or printing to view, but which will reduce the weight of the device.

In adapting the device to the type-writing machines of different styles it will, of course, be necessary to alter in some respects the means employed for securing the device to the machine; but such alterations are simply matters of mechanical skill and expediency, which a person conversant with mechanics

would have no difficulty in providing, and I do not, therefore, consider it necessary to relate at length the different changes which may be made for this purpose. After one side of a sheet of paper has been printed, and it is desired to print the other side, the sheet is inserted in the passage formed by the guides and plate and fed down to the machine in this way, the top of the sheet passing up through the passage again, as shown in Fig. 5. By this means it will be impossible for anyone to read the written or printed matter on either side of the sheet, causing both sides of the sheet to be absolutely private.

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

1. As a new article of manufacture, an attachment for type-writing machines consisting of a receptacle constructed to receive the written or printed sheet as it passes through and out of the machine and conceal the same from view.

2. As a new article of manufacture, an attachment for type-writing machines consisting of a receptacle adapted to be removably secured upon a type-writing machine and arranged to receive the written or printed sheet as it passes through and out of the machine and conceal the same from view, substantially as described.

3. As a new article of manufacture, an attachment for type-writing machines consisting of a receptacle struck up from a single sheet of metal and adapted to receive the written or printed sheet as it passes through and out of the machine and conceal the same from view, substantially as described.

4. An attachment for type-writing machines consisting of a receptacle struck up from a single sheet of metal and comprising a concealing plate, the extensions on said plate arranged to engage the parts of a type-writing machine, and the guides on the back of said plate, substantially as and for the purpose set forth.

5. An attachment for type-writing machines consisting of a receptacle comprising a concealing plate, the extensions on said plate bent or curved to engage with parts of a type-writing machine, the guides on the back of said plate, a slot adapted to receive the end of the paper guide, the supports, and the fingers, substantially as and for the purpose described.

6. In an attachment for type-writing machines consisting of a receptacle adapted to receive the written or printed sheet as it passes through and out of the machine and conceal the same from view, supporting devices on the face of the concealing plate to receive and support a manuscript, and a cap-piece adapted to be projected above the top of said plate, substantially as and for the purpose described.

7. As a new article of manufacture, an attachment for type-writing machines consisting of a receptacle and comprising a conceal-

and means for securing the same to
ing machine directly in front of the
and guides arranged on the back of
forming with the plate a passage to
the written or printed sheet as it passes
gh and out of the machine, substantially
described.

Signed at New York, in the county of New
York and State of New York, this 31st day of
January, A. D. 1895.

THOMAS HENRY BURCHELL.

Witnesses:

HERMAN GUSTOW,
WM. O. BELT.