W. L. WHITE.

TYPE WRITER ATTACHMENT.

APPLICATION FILED JULY 25, 1916.

1,291,319.

Patented Jan. 14, 1919.

Fig. 1.

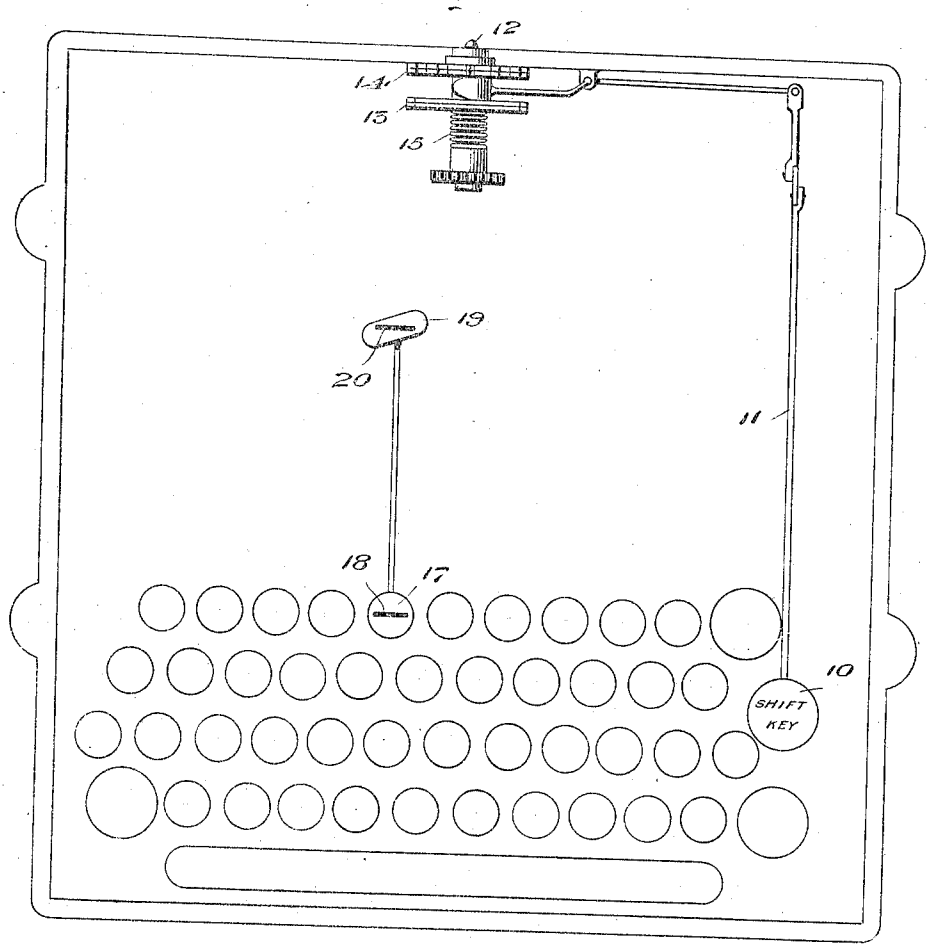


Fig. 2.

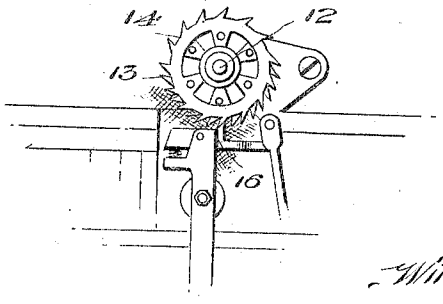
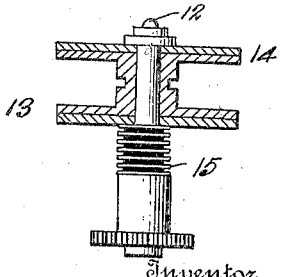


Fig. 3



Inventor

William L. White

Witness

P. M. Hindt.

H. A. Minnett

By John Louis Waters & Co.

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM LEMUEL WHITE, OF BIRMINGHAM, ALABAMA, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPE-WRITER ATTACHMENT.

1,291,319. Specification of Letters Patent. Patented Jan. 14, 1919.

Application filed July 25, 1916. Serial No. 111,201.

To all whom it may concern:

Be it known that I, WILLIAM L. WHITE, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented certain useful Improvements in Type-Writer Attachments, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in typewriter attachments, one object of the invention being the provision of an auxiliary escapement device by means of which the carriage is permitted to move two spaces instead of one space and is especially adapted for use in connection with an extra long underlining dash, so that it is not necessary to manipulate the same for underlining a great number of times as is now required.

In the accompanying drawings:—

Figure 1 is a top plan view of the key board of a typewriter, showing the present invention applied thereto, the type basket being removed and only the dash carrying key lever and its connections being shown, the escapement shifting member being shown in top plan.

Fig. 2 is a rear elevation of the portion of the typewriter adjacent the escapement wheels showing both wheels in position.

Fig. 3 is a top plan view thereof showing the present escapement wheel in operable relation.

Referring to the drawings, the numeral 10 designates a key which is operably connected through the rod 11 to the slidable shaft 12 which carries the two double escapement wheels 13 and 14, the wheel 13 being the regular escapement wheel, while the wheel 14 is provided with half the number of teeth and permits the movement of the carriage two instead of one space every depression of a type key.

The spring 15 is so connected as to return the shaft so that the regular escapement wheel is in alinement with the pawl 16 so that the carriage is permitted movement one type distance, as is usual.

The type key 17 is provided with the dash indication 18, while the type 19 controlled thereby is provided with the long dash 20 which is approximately the length of two of the ordinary type.

Thus, when it is desired to operate the dash, the key 10 is depressed and shifts the escapement wheel so that the wheel 14 is thrown into coöperation with the pawl, and each depression of the type key will cause the movement of the carriage two instead of one space.

With this attachment, when underlining, only half the number of movements are required to cause the underlining member to perform the desired work.

What I claim as new is:—

1. In a typewriting machine, the combination with a typewriter carriage, alphabet keys and single-space letter-feeding means for said carriage under the control of said keys, of rapid underscoring mechanism including an underscore type of multiple width as compared with any alphabet type, to underscore at each impression a group of adjoining impressions made by successive operations of any alphabet types, and said underscoring mechanism also including group-spacing means and also including means to enable the carriage to be taken out of control of said single-space letter-feeding means and to be placed under the control of the group-spacing means, to enable the underscoring at each underscore type-stroke of a group of type impressions made by successively operated alphabet keys.

2. In a typewriting machine, the combination with alphabet type keys and uniformly-operating carriage-feeding means under the control thereof, of rapid underscoring mechanism including an underscore key; and means to coöperate with said underscore key, to enable successive operations thereof to underscore successive groups of alphabet type-impressions, said coöperating means including an underscore type of multiple width as compared with any alphabet type, to underscore at each impression a group of adjoining impressions made by successive operations of any alphabet types, and also

including means shiftable to increase the carriage-feeding movement to an extent to correspond with the extent of the group of alphabet type-impressions underscored at each stroke of the underscoring key.

3. In a typewriting machine, the combination with alphabet type keys, a carriage and letter-spacing mechanism therefor, of an underscoring mechanism comprising both an underscore type of double the width of any alphabet type and operating means therefor, and also comprising means settable to cause double movement of said letter-spacing mechanism at the operation of said type.

In testimony whereof I affix my signature.

WILLIAM LEMUEL WHITE.