No. 610,181. Patented Sept. 6, 1898.

F. A. HASSLER.

WORD REGISTER FOR TYPE WRITING MACHINES.

(Application filed Nov. 13, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

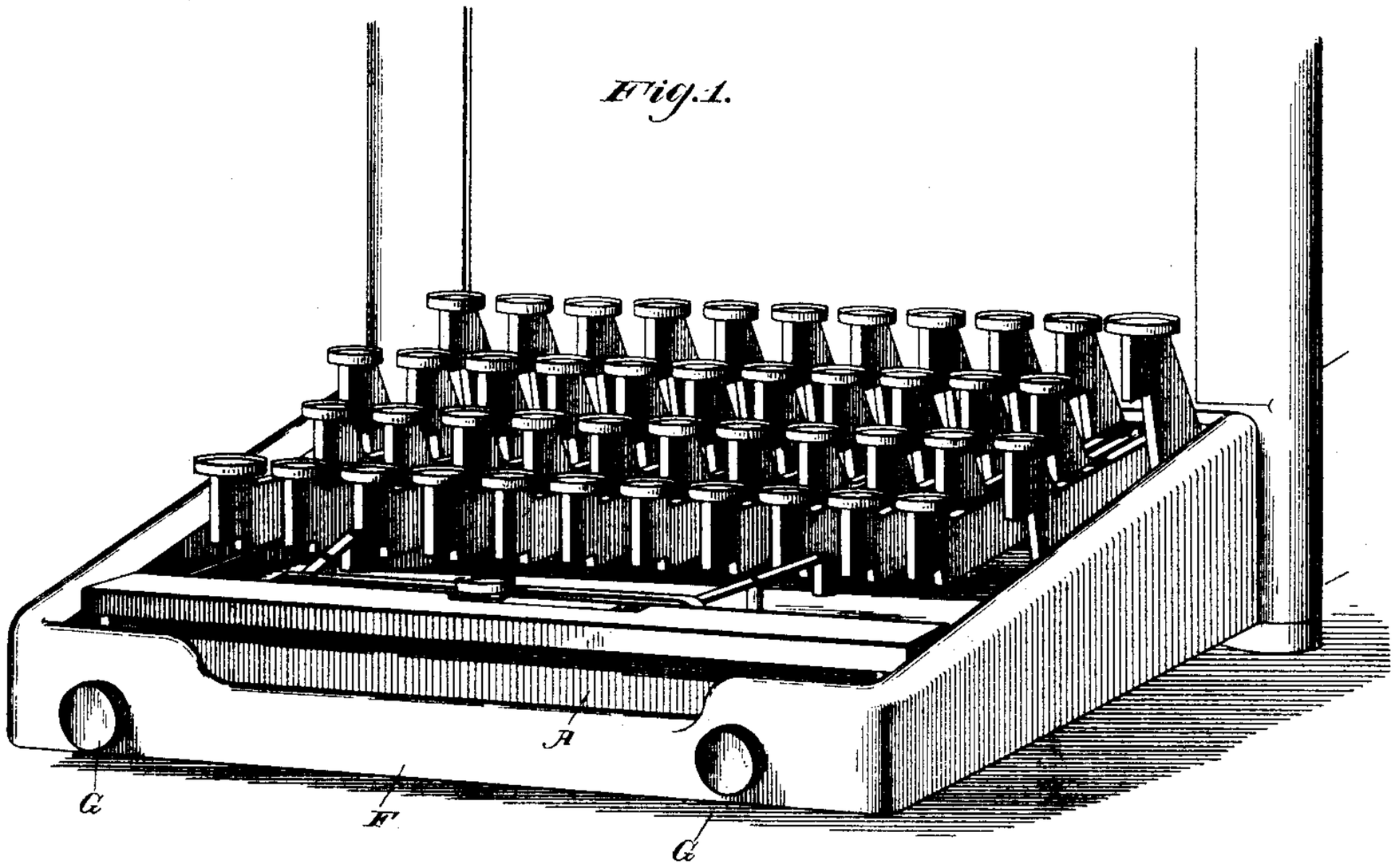

Fig. 2.

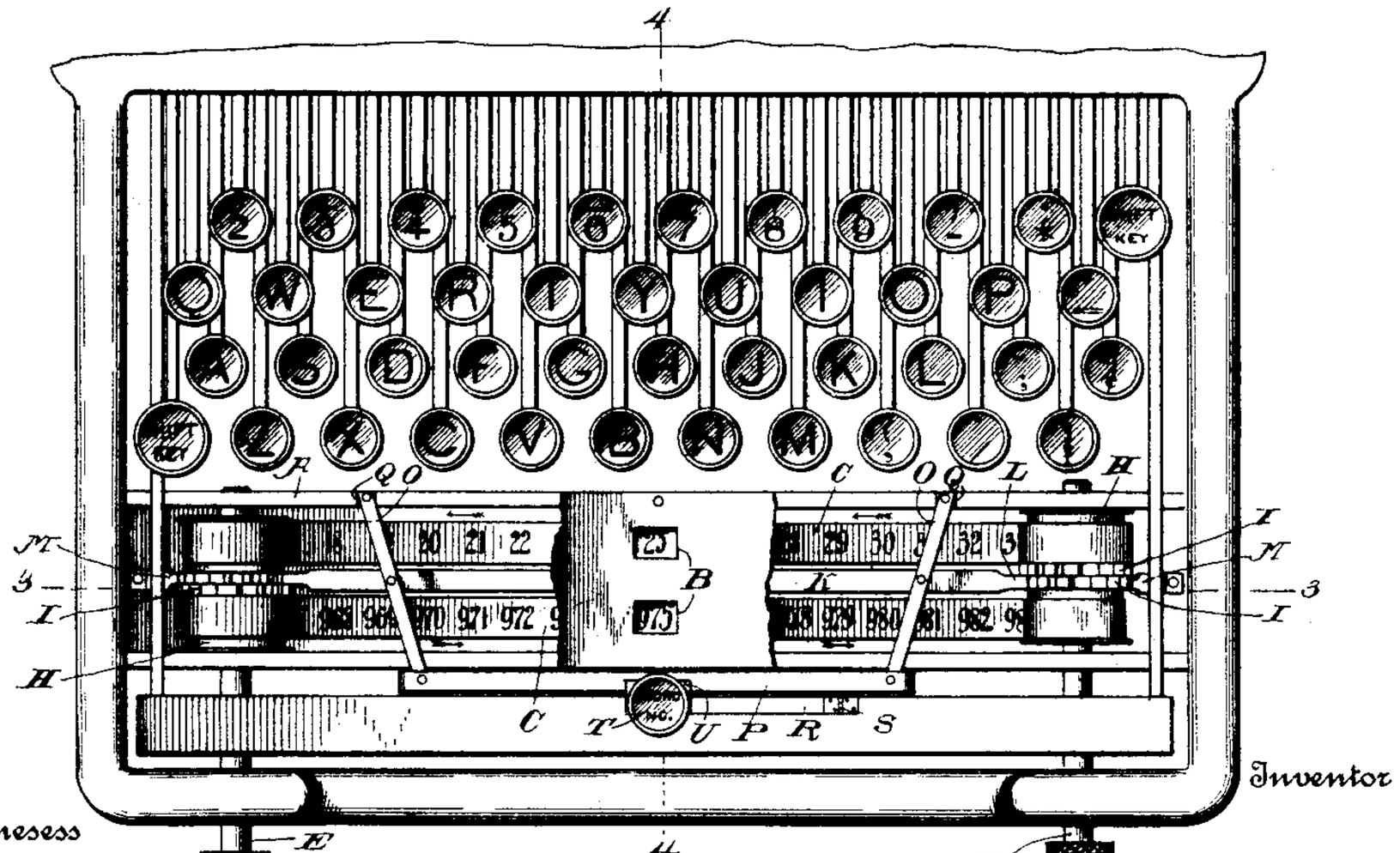

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Fig. 3.

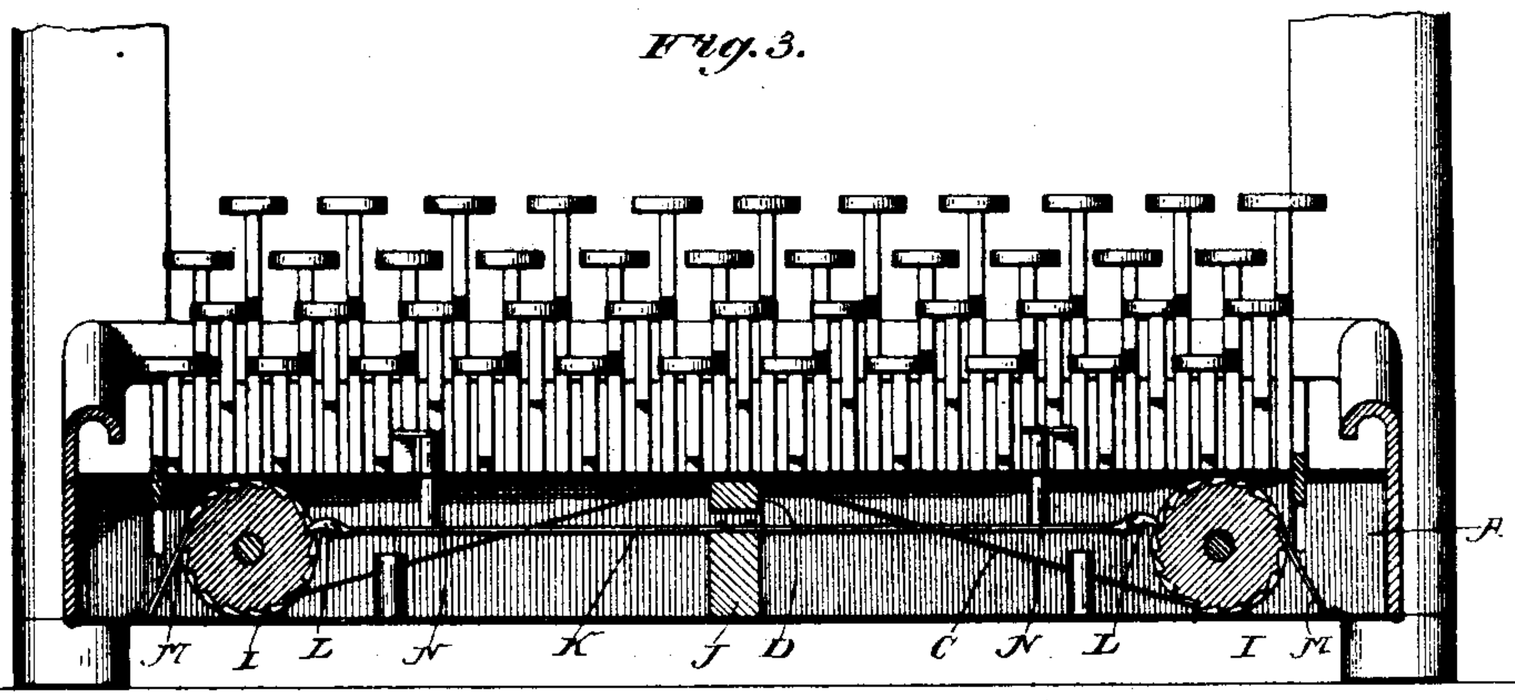
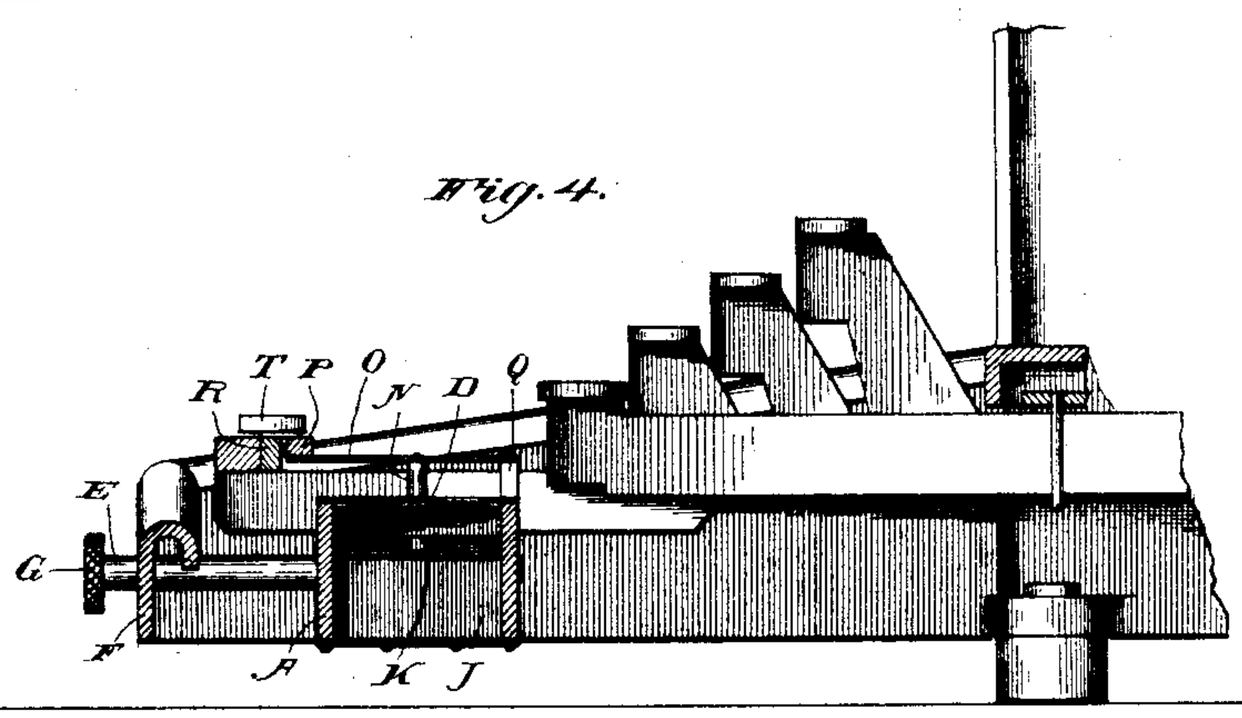


Fig. 4.



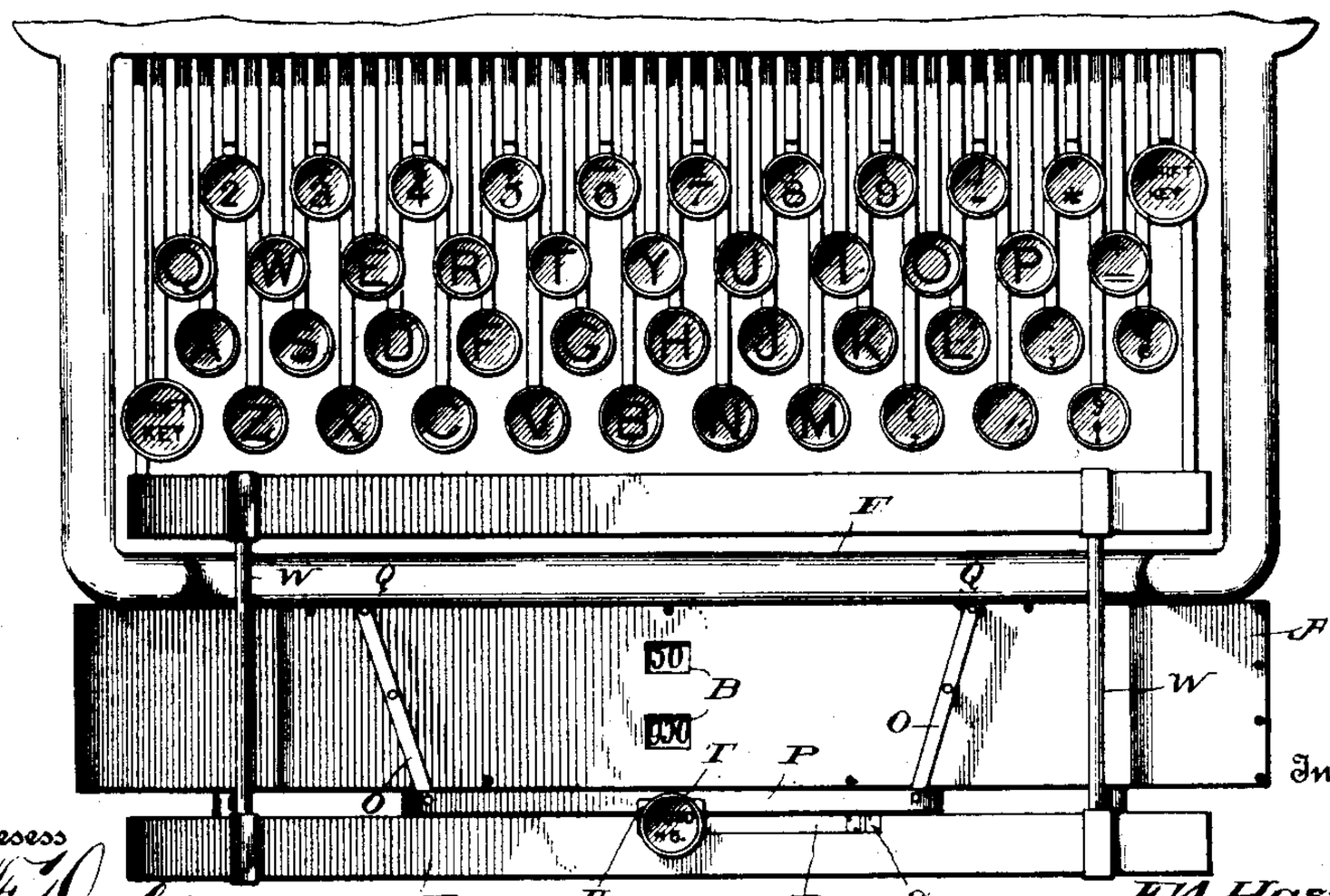


Fig. 5.

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UNITED STATES PATENT OFFICE.

FERDINAND A. HASSLER, OF SANTA ANA, CALIFORNIA.

WORD-REGISTER FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 610,181, dated September 6, 1898.

Application filed November 13, 1897. Serial No. 658,444. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND A. HASSLER, residing at Santa Ana, in the county of Orange and State of California, have invented a new and useful Word-Register for Type-Writing Machines, of which the following is a specification.

This invention relates to an attachment for type-writing machines for indicating the number of words written by the operator.

The object of the invention is to provide an attachment which is simple in construction and effective in operation, the same being actuated simultaneously with the spacing of the words.

A further object is to so construct the attachment that several spaces may be made between words when desired without registering a word for each space.

A still further object is to provide two series of indicating-numerals so arranged that while one series is indicating the number of words written the other series is returning to its starting-point to be in position to continue the indicating operation when the first series is exhausted.

With the above objects in view the invention consists of two series of indicating-numerals, each arranged upon a tape, said tape passing around rollers at each side of the machine, a means for rotating the roller of one series at one end of the machine and at the same time the roller of the other series at the opposite end of the machine, so that the tapes travel in reverse directions, a means for shifting said rollers so that the operating means will engage the opposite rollers of each series, and a key for actuating said operating means, which key is adapted to engage the spacing-bar and operate the same, so that as the words are spaced the numbers of the same are indicated by the indicating-numerals.

The invention further consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the claims.

In order to enable others skilled in the art to which my invention most nearly appertains to make and use the same, I will now proceed to describe its construction and operation, having reference to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a portion of a type-writer, showing the keyboard with my invention applied thereto. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a vertical transverse section taken on the line 4 4 of Fig. 2. Fig. 5 is a top plan view of a portion of the type-writer, showing the keyboard thereof with a slight modification of my invention, the same in this instance being shown as detachable, so that it may be applied to any type-writer having a spacing-bar.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Referring to the accompanying drawings, A indicates the casing of my attachment, having the openings B formed in its top, as illustrated in Fig. 2, beneath which the numerals pass, which are arranged on the longitudinally-extending tapes C, which extend parallel to each other, said tapes passing over a cross-piece D, arranged beneath the openings in the top.

E E are rods which extend transversely through the casing and project through the front bar F of the type-writer frame, where they are provided with the knobs G, said rods being movable transversely of the casing and positioned adjacent each side of the machine. Rotatably mounted upon these rods are the pairs of rollers H, said rollers being locked from transverse movement thereon and having their meeting flanges formed with the ratchets I. The ends of the respective tapes are secured to opposite rollers of the pairs, as clearly illustrated.

A cross-bar J is secured within the casing, and supported by this cross-bar is a spring-actuating rod K, which is secured intermediate its ends to said cross-bar, and is provided at its extremities with the dogs L, adapted to engage the ratchets of the rollers, while the spring-pawls M engage the ratchets upon the opposite sides to prevent the rotation thereof in a reverse direction.

Secured to the spring-rod on opposite sides of its center are the upwardly-extending rods N, to the upper ends of which the horizon-

tally-extending spring-bars O are attached intermediate their ends, the said bars being connected by a longitudinally-extending cross-piece P at their forward ends and at their rear ends secured to posts Q, extending upwardly from the top of the cover. These rods N are freely movable through the top through the medium of openings formed therein, so that as the bar P is depressed said rods will be depressed and the dogs carried by the spring-rods K caused to engage the ratchets and actuate the rollers.

In operation one of the rods G is drawn outwardly, bringing the rear roller of one pair into engagement with one of the dogs L, while the other rod E is pushed inwardly, bringing the front roller of the other pair into engagement with the opposite dog L. Thus when the push-bar is depressed the dogs actuate one of the rollers of one pair in one direction and the diagonally opposite roller of the other pair in the opposite direction, thus causing the tapes to move in reverse directions, as indicated by arrows in Fig. 2, so that when one set of numerals is indicating the number of words written the other set is returning to its starting-point.

For actuating the push-bar P, I provide a strip R, which is hinged at one end to the spacing-bar of the machine, as indicated at S, and at its opposite end is provided with the key T and with the plate U on the under side thereof, which plate is adapted to rest upon the spacing-bar and also upon the push-bar P. Now when it is desired to make a space at the end of the word and also to indicate the number of words written the key T is depressed, which by its engagement with the push-bar P and the spacing-bar of the type-writer simultaneously makes said space and indicates the number of the word; but, however, should it be desired to make several spaces without indicating a word for each space the spacing-bar is depressed, which makes the spaces, but does not depress the push-bar P, as said strip R is hinged to the space-bar and permits the downward movement thereof without the corresponding movement of push-bar P.

In the modification I employ the same construction, but place the attachment upon the outside of the front bar of the frame of the type-writer and provide a space-bar V, having the hinged strip R and key T, as in the former construction, and detachably connect this space-bar to the space-bar of the machine by the rods W. Thus the attachment may be applied to any machine having a space-bar, as will be readily understood.

From the above description it will be seen that I have produced a very simple attachment by means of which the number of words written by the operator is indicated, the attachment being capable of application to machines of various constructions without altering the construction of the machine.

While I have illustrated and described the best means now known to me for carrying out my invention, I do not wish to be understood as restricting myself to the exact details of construction shown and described, but hold that any slight changes or variations such as might suggest themselves to the ordinary mechanic will properly fall within the limit and scope of my invention.

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

1. The combination with a type-writing machine, of an indicating device therefor, a push-bar for actuating said indicating device, and an operating-key hinged to the spacing-bar and adapted, when depressed, to actuate the push-bar and the spacing-bar, substantially as set forth.

2. In a device of the character described, the combination of pairs of rollers, tapes carried by said rollers and provided with indicating-numerals, said rollers provided with ratchets, a spring-bar secured intermediate its ends and carrying dogs at its extremities which engage the ratchets of the diagonally opposite rollers, a push-bar adapted to engage the spring-bar and depress the same to effect the operation of the dogs, and means for effecting the engagement of the dogs with the opposite rollers of the pairs, substantially as set forth.

3. In a device of the character described, the combination of a casing, pairs of rollers rotatable therein, tapes secured at their ends to the opposite rollers and carrying indicating-numerals, said rollers provided with ratchets, a spring-rod secured intermediate its ends and carrying dogs at its extremities adapted to engage the ratchets of the diagonally opposite rollers, rods secured to said spring-rod on opposite sides of the center and extending upwardly, spring-arms secured at their inner ends to the casing and attached intermediate their ends to the upper end of said rod, a push-bar connecting the free ends of said spring-rod, and means for effecting the engagement of the dogs with the other rollers of the pairs, substantially as set forth.

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