

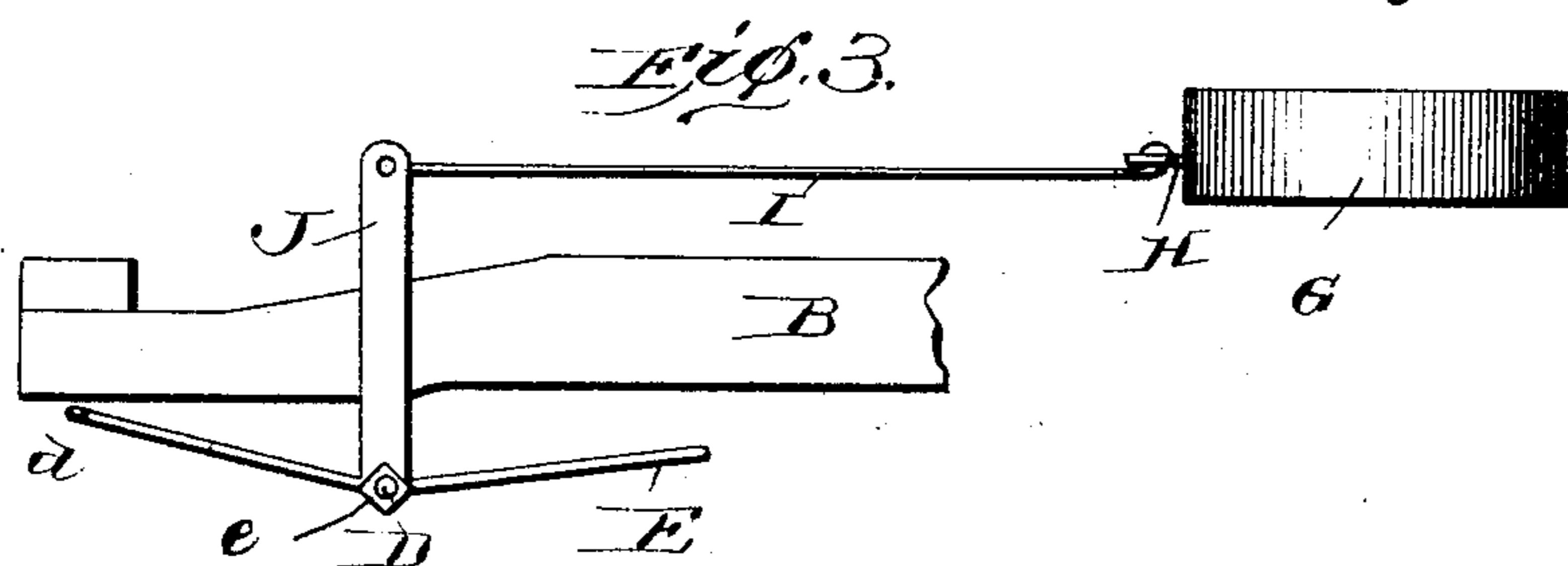
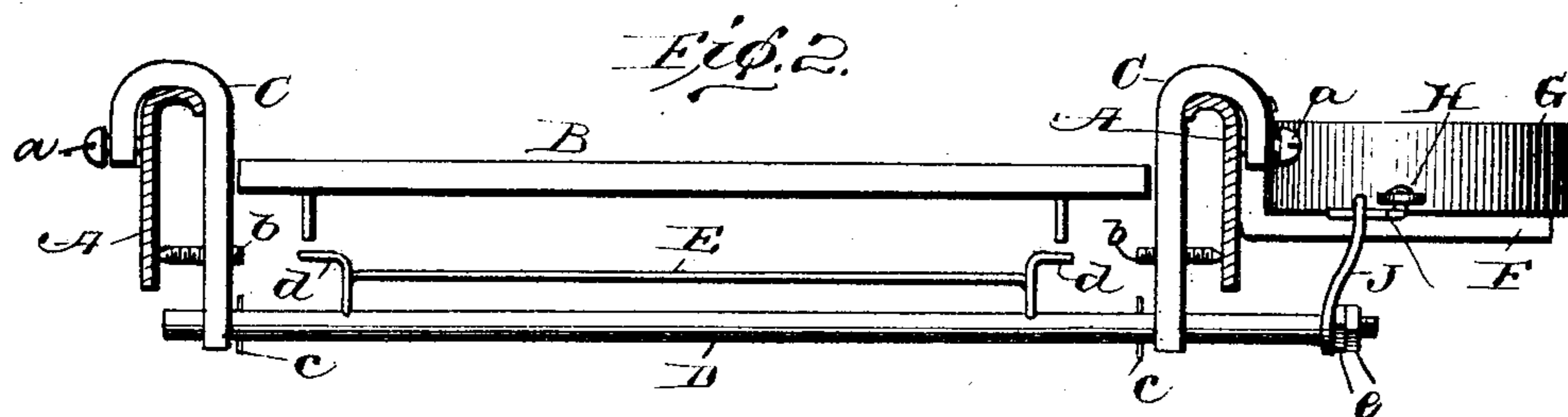
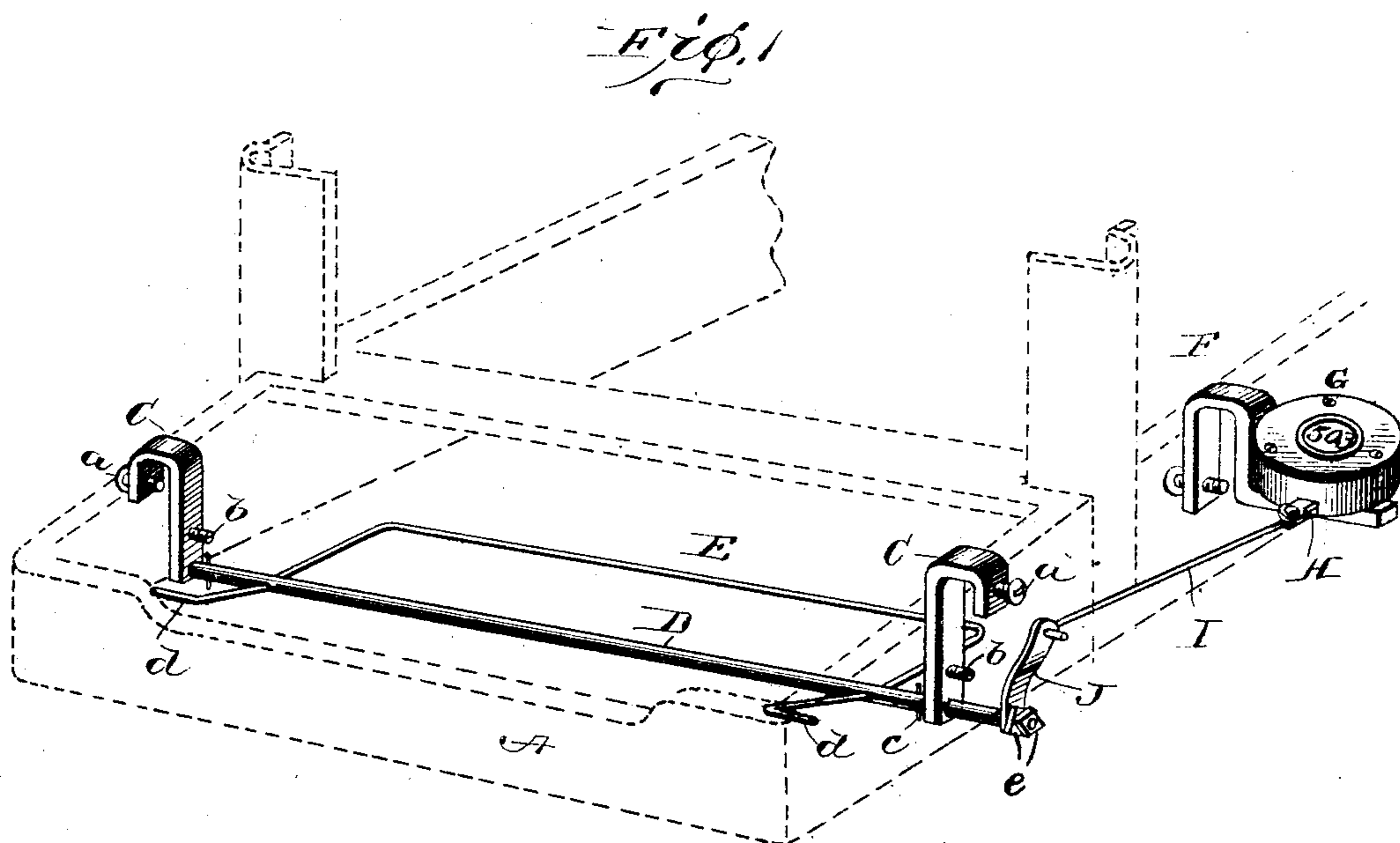
No. 788,011.

PATENTED APR. 25, 1905.

R. ALLEN.

TYPE WRITER WORD REGISTERING DEVICE.

APPLICATION FILED JUNE 3, 1902.



Witnesses.

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UNITED STATES PATENT OFFICE.

ROBERT ALLEN, OF BIGTIMBER, MONTANA.

TYPE-WRITER WORD-REGISTERING DEVICE.

SPECIFICATION forming part of Letters Patent No. 788,011, dated April 25, 1905.

Application filed June 3, 1902. Serial No. 110,092.

To all whom it may concern:

Be it known that I, ROBERT ALLEN, a citizen of the United States, residing at Bigtimber, in the county of Sweet Grass and State of Montana, have invented certain new and useful Improvements in Type-Writer Word-Registering Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to word-counting attachments for type-writing machines; and it has for its object to provide an extremely simple and comparatively inexpensive device adapted to be attached to type-writing machines and to count and register the number of words printed by the machine; and it consists of the parts and combinations of parts hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of my improved device in position on a type-writing machine, a portion of the frame of which is shown in dotted lines; Fig. 2, a vertical section through the frame of the machine, showing my device in position; and Fig. 3, a side elevation of the device, showing a portion of the space-key of the machine.

Similar letters refer to similar parts throughout all the views.

Referring to the drawings, A represents the frame of a type-writing machine of the Remington type, and B the space-key.

C represents a bracket or clamp bent over at one end in the form of a hook, so as to fit down on the side pieces of the type-writing-machine frame and adapted to be adjustably secured thereto by the screws *a* and *b*, the latter serving also to hold the clamp the proper distance from the side piece in order that the clamp may hang in its proper vertical position parallel with the frame. This adjustment is necessary because of the curved flange of the side piece common to all type-writing machines with which I am familiar, which might permit the lower end of the clamp inclining toward the frame, and thus

bind on the shaft D and prevent it turning therein.

The shaft D is loosely hung in the lower ends of the clamps C, there being a clamp at each side of the machine arranged in line with each other, and is prevented working therein longitudinally by transverse pins *c*. At one end the shaft extends under and beyond the side piece of the frame and its end reduced and screw-threaded for a purpose to be described. The shaft D carries a frame consisting of a bail or bar E, having its ends bent at right angles and secured to said shaft, preferably by having its ends passed through openings in said shaft. The extreme ends of the bar are also bent at right angles horizontally, as at *d*, so that they extend under the bars of the space-key B at each side. The frame, as clearly shown, is cradle-shaped, so that the depression of the same from either side of the shaft rocks the latter in its supporting-clamps.

F represents a bracket clamped to one of the side pieces of the frame, to which is secured a suitable registering device G, having slide-bar H, which is connected by a rod I with a crank-arm J, secured on the projecting end of the shaft D by nuts *e*.

As will be observed, a simple and comparatively inexpensive device is obtained and one that can be easily attached to the style of type-writing machine mentioned.

To accomplish the attachment of the device to a machine, it will be noticed that clamps C are constructed with a long and a short limb, thus enabling an operator to apply the device to the machine by simply placing the rocking frame under the keys, sliding the clamps over the ends of the shaft, and passing them up on the inside of the frame between the outside keys and the frame and hanging the short limb over the edge of the frame. There is only a limited space beneath the keys and frame and the construction described enables the hanging of the device in position in such space without crowding. The simple construction of the frame E is also to be noted, it consisting of a moderately stout piece of metal wire or rod of small di-

ameter bent first U-shaped, the ends passed through the rock-shaft, and the ends bent as shown. The adjustability of the rocking frame in relation to the keys is also to be noted, this being accomplished by means of the screws *a b*, the latter having pointed ends to engage the smooth walls or sides of the frame to prevent slipping.

In operation the register is set by drawing out its bar H, which may be accomplished by hand or by depressing the space-key, which engages the ends *d* of the frame and rocks the shaft D. This movement leaves the frame tilted, so that the depression of any one of the other keys of the machine will rock the shaft in the opposite direction, and thus through the crank-arm J and rod I move the slide-bar H in and causing the registering device to register one word. The parts remain in the position described until the space-bar is again depressed, when the slide-bar H is drawn out, in which position it remains until a letter or other printing-key is depressed, when the slide-bar is moved in and the registering device actuated to register another word. Thus, it will be observed, no action of the registering mechanism can be had until a letter-key is depressed, the spacing-key merely acting to set the register and its operation

having no effect on the registering or counting proper.

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

A word-registering attachment for typewriting machines comprising a pair of clamps having hooked upper ends whereby they are hung from the machine-frame, set-screws extending through the hooked upper ends and adapted to bear against the outer sides of the machine-frame, adjusting-screws extending through the lower parts of the clamps and adapted to bear against the inner sides of the machine-frame, a shaft mounted in the lower ends of the clamps, a frame secured to the shaft and having its ends adapted to project beneath the bars of the space-key, a crank-arm secured to the shaft, a bracket adapted to be clamped to the machine-frame, a registering device having an operating slide-bar, and a rod connecting the crank-arm with the slide-bar.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT ALLEN.

Witnesses:

JOHN H. GLAZIER,
MARGARET JOHNSON.