

(No Model.)

W. R. SWARTWOUT.
TYPE WRITER CLEANER.

No. 541,892.

Patented July 2, 1895.

Fig. 1.

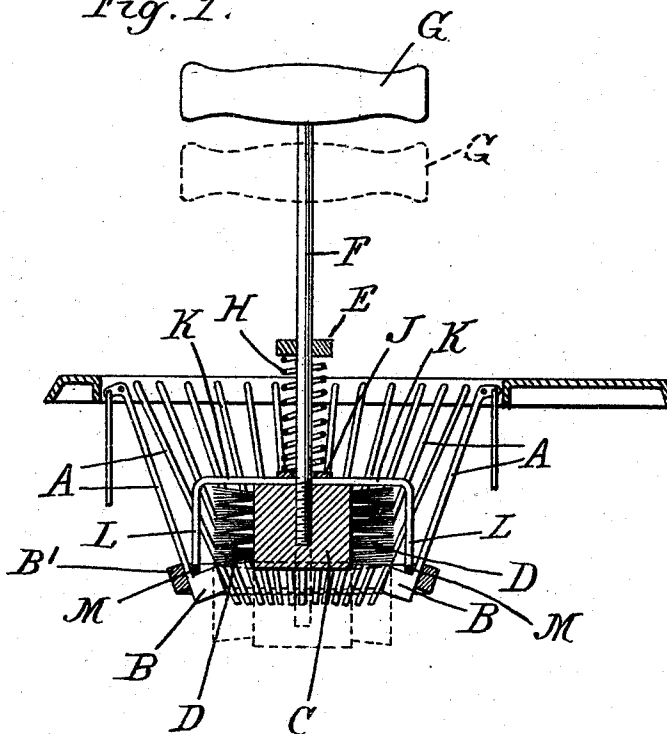
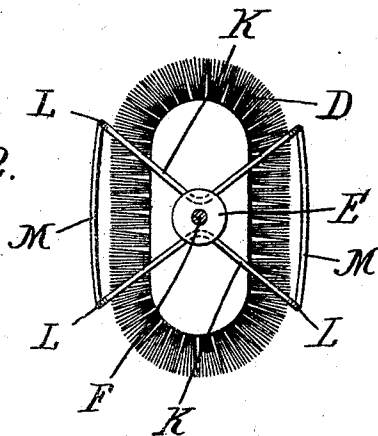


Fig. 2.



Witnesses,

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UNITED STATES PATENT OFFICE.

WALTER R. SWARTWOUT, OF CHICAGO, ILLINOIS.

TYPE-WRITER CLEANER.

SPECIFICATION forming part of Letters Patent No. 541,892, dated July 2, 1895.

Application filed January 19, 1895. Serial No. 535,486. (No model.)

To all whom it may concern:

Be it known that I, WALTER R. SWARTWOUT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Type-Writer Cleaners, of which the following is a specification.

My invention relates to devices for cleaning the type of typewriters and has for its object to provide a convenient and simple device whereby the type of an ordinary typewriter may be readily cleaned. It is illustrated in the accompanying drawings where I have shown one form of my invention.

Figure 1 is a sectional view through the device with the parts shown in two positions by dotted lines. Fig. 2 is a plan view.

Like parts are indicated by the same letters in both the figures.

A A are the type bars; B, the type at the lower end thereof.

C is a brush body having the brush bristles D D thereon, and for an ordinary Remington typewriter it would be substantially of the shape shown, though of course it will be understood that the brush must conform in shape to the arrangement of the type which are to be cleaned. I mean by arrangement the position which they assume when at rest.

E is a washer rigid on the rod F which carries the handle G. The lower end of the rod is rigid to the body of the brush. Beneath the washer E is the spiral spring H, and beneath that a plate J from which radiate or to which are secured the arms K K, which pass out toward the margin of the brush and there are downwardly turned at L and are formed into or are secured to a guard rail M which passes wholly or partially about the brush, as occasion may require.

Of course the form and arrangement of the several parts can be greatly altered; but I have endeavored to show the best form as I now understand it, and having particular reference to a Remington typewriter.

B' is the support against which the type normally rest.

The use and operation of my invention in the form shown are as follows: The brush shaped as indicated, and when used with a Remington typewriter, is provided with a

guard rail which projects only at the side of the brush, and which is preferably in close proximity to the lower outer edge of the bristle surface. The device is forced down into the pit or space between the type bars, the carriage having been tilted back. The arrangement of the guard rails is such that they will engage the several type at or near the junction of the type with the bar, and they will do this at about the moment when the lower portion of the bristle surface engages such type. The handle may now be raised and lowered rapidly and the bristle surface will pass over the exposed surfaces of the type, thus cleaning them from dust and dirt. All the time they are held in position by the guard rail, which presses upon them elastically. When the brush is sought to be removed, were it not for the guard rail, there would be a strong tendency of the bristles to press the type upward and thus bend and twist them and the bars to which they are attached. This action is entirely prevented by the guard rail, which holds the type down elastically until the brush has been practically freed from the face of the type. The guard rail need not be exactly as shown or constructed, but I find that it works best in the form indicated. In the case of some typewriters where all the bars are inclined, the guard rail should extend around the brush. The form and configuration of the brush must of course vary according to the particular machine; and in the case of some machines where there are cross bars, the brush might have to be made sectional or otherwise in order to get it into position. These are details, however, with which I am not at this moment busying myself, the general principle of my invention being here set forth and sufficiently illustrated in connection with a brush adapted for use on the Remington machine.

I claim—

1. In a typewriter cleaner the combination of a brush shaped to conform to the figure made by the type when in a position of rest, with a handle for moving such brush across the face of the type, and a guard rail which bears against the face of the type bars.

2. In a typewriter cleaner the combination of a brush of a shape to conform to the figure made by the type when at rest, with a guard

rail elastically connected with the brush, and a handle adapted to move the brush back and forth while the guard rail is at rest against the type bars.

- 5 3. In a typewriter cleaner the combination of a brush of a shape to conform to the figure made by the type when at rest, with a guard rail elastically connected with the brush, and

a handle adapted to move the brush back and forth while the guard rail is at rest against the type bars, said guard rail lying in close proximity to the lower edge of the brush.

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Witnesses:

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