

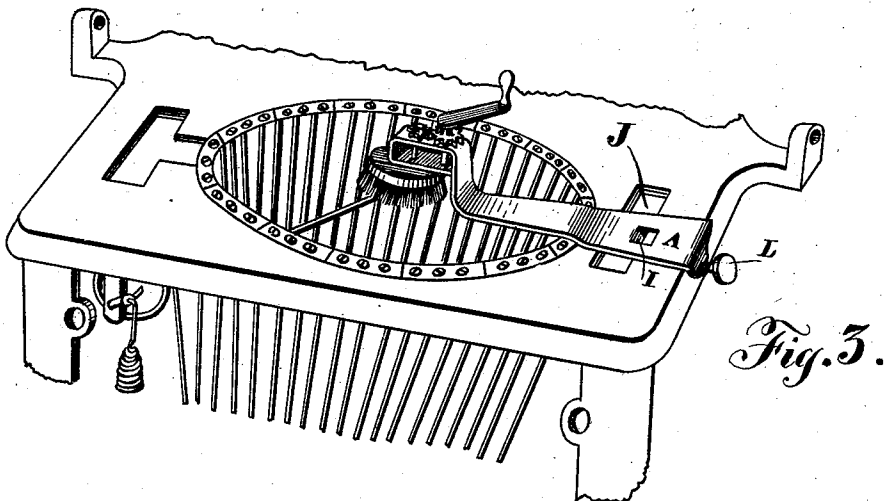
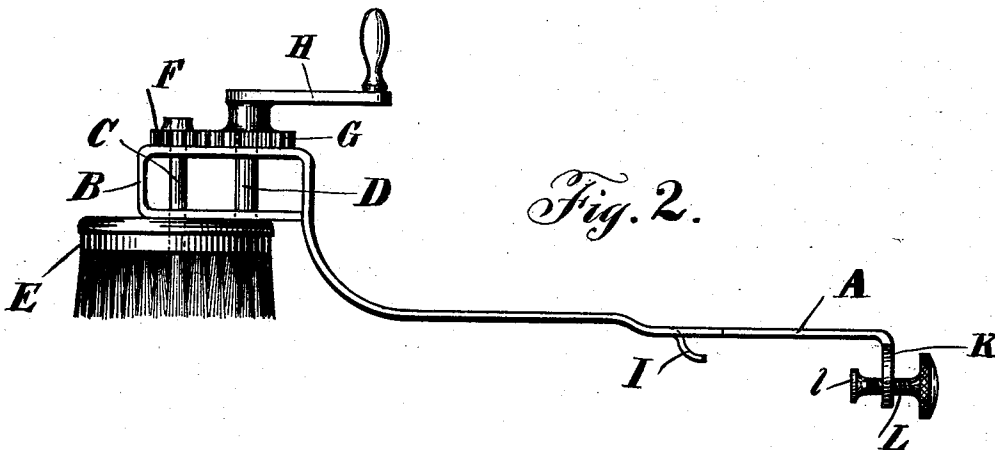
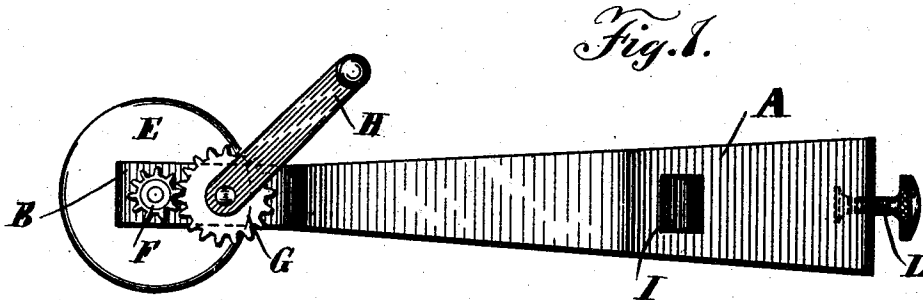
(No Model.)

A. G. MACGREGOR.

TYPE CLEANER FOR TYPE WRITING MACHINES.

No. 508,904.

Patented Nov. 14, 1893.



Witnesses.

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ALBERT GEORGE MACGREGOR, OF CHICAGO, ILLINOIS.

TYPE-CLEANER FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 508,904, dated November 14, 1893.

Application filed June 20, 1892. Serial No. 437,396. (No model.)

To all whom it may concern:

Be it known that I, ALBERT GEORGE MACGREGOR, a citizen of the United States, residing at Chicago, Illinois, have invented certain new and useful Improvements in Type-Cleaners for Type-Writing Machines, of which the following is a specification.

The object of my invention is to provide a simple, economical and efficient brush mechanism, capable of being readily attached to any of the well-known forms of typewriting machines; and the invention consists in the features and combinations hereinafter described and claimed.

In the drawings, Figure 1 represents a plan view of my type cleaner; Fig. 2 an elevation of the same; and Fig. 3 a perspective view of a portion of a typewriting machine with the cleaner attached thereto ready for use.

In construction, I use a frame A, preferably made of sheet metal and bent in the desired form. At one end, B, I bend the frame into such shape as will give sufficient bearing for the spindles C and D. To the lower end of the spindle C, I fasten in any usual manner the brush or cleaner E, and to its upper end a small pinion F for communicating motion from the driving spindle D and its gear wheel G. The pinion F, driving gear G and crank H are fastened rigidly to their respective spindles. The frame is provided with means, preferably as shown, for securing it to the frame of the typewriter machine. This means consists of the hooked lip I for entering the slot or opening J in the typewriter frame, and one end of the cleaner frame, at K, is bent at right angles and provided with a thumb screw L, whose swiveled platen l impinges the side of the typewriter frame. The combination and arrangement of parts act as a simple clamp and serves to allow the cleaner to be interchanged with any of the well-known machines of this class.

In operation, the hooked lip I is inserted in a slot or opening of the typewriting machine, and hooked on the under side of its frame, while the screw L secures it solidly to the same. The operator presses down on one finger key of the typewriting machine until its bar brings the type up to the brush or cleaner, as in Fig. 3, when the brush is revolved and the type cleaned, this being done by turning the crank, or in any other convenient manner. This operation is repeated until all the type, or types necessary to be cleaned, are cleaned, when the cleaner is detached from the machine and put away for future use or use on another machine.

The advantages of this style of a cleaner are, that it is a simple and serviceable means of cleaning the type, and, being interchangeable with all machines of this class it is economical, while the rotation of the brush in the same plane as the face of the type minimizes or absolutely prevents all injury to the type or of bending the bars.

I claim—

In combination with a typewriting machine, a rotatable brush having its plane of rotation in the same plane as the face of the type, a vertical shaft, C, for carrying the brush, a gear, F, attached to such shaft, a vertical shaft, D, provided with a gear G and a crank handle H, adapted to drive or rotate the brush, a metallic frame preferably formed of a sheet metal strip and bent at one end, B, to form two bearings for the driving mechanism, a lip, I, integral with the metallic frame, a right angular projecting end, K, on the metallic frame, and a binding screw, L, provided with a loose platen, l, substantially as described.

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Witnesses:

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