

(No Model.)

O. COHN.

CLEANING DEVICE FOR TYPE WRITING MACHINES.

No. 478,406.

Patented July 5, 1892.

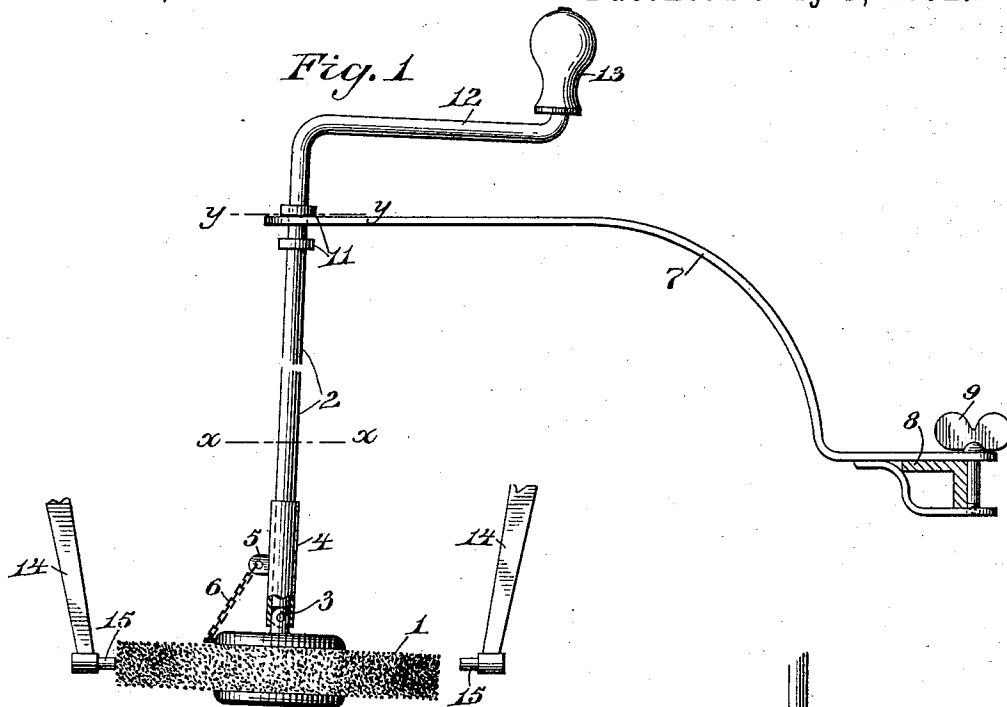


Fig. 3

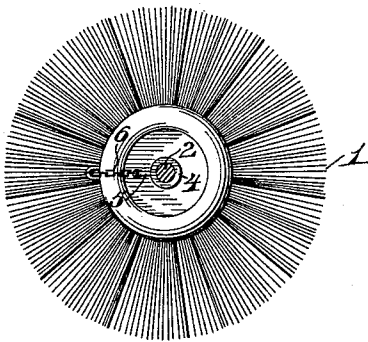


Fig. 2

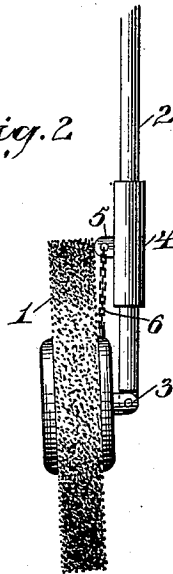
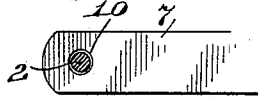


Fig. 4



WITNESSES

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CLEANING DEVICE FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 478,406, dated July 5, 1892.

Application filed July 8, 1891. Serial No. 398,741. (No model.)

To all whom it may concern:

Be it known that I, OSCAR COHN, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Devices for Cleaning Type-Writing Machines; and I do hereby 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.

My invention has for its object to produce a simple, inexpensive, easily operated, and easily applied brush-tool for cleaning the types in writing-machines. I am aware that various devices have been devised for this purpose which for various reasons have not proved perfectly satisfactory to the users, the essential requirements being that the device shall be capable of ready attachment and detachment, and will operate quickly and thoroughly, whether the type are arranged in circular or oval form, and without danger of soiling the fingers of the operator.

With these ends in view I have devised the novel brush-tool which I will now describe, referring by numerals to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of my novel brush-tool complete and in operative position, a portion of the frame of a type-writer to which it is attached being shown in section, and opposite type-bars with types thereon being shown in substantially the position they occupy in the machine; Fig. 2, a view showing the manner in which the brush may be tilted over in order to place it in operative position in certain machines; Fig. 3, a section on the line x in Fig. 1, looking down; and Fig. 4 is a section on the line $y y$ in Fig. 1, looking down.

1 denotes a circular brush, which is carried by a shank 2 and rotates in the horizontal plane.

As it is necessary in certain machines—for example, the Caligraph—to tilt the brush upward in order to place it in operative position within the type-bars, I preferably provide the shank with a joint 3, over which a sleeve 4 slides, the sleeve being provided with a lug 5,

from which a chain 6 extends to the brush. When the sleeve is pushed down, as in Fig. 1, it covers the joint and holds the brush in operative position. When the sleeve is moved up, however, as in Fig. 2, the joint is left uncovered and the chain swings the brush into nearly a vertical position. The shank is carried by an attaching-arm 7, the inner end of which is bifurcated so as to embrace some portion of the frame of the machine, such portion of the machine being indicated in the present instance by 8.

9 denotes a thumb-screw which passes through one of the branches and is threaded to engage the other branch, so as to clamp said branches tightly about the frame of the machine, as shown in Fig. 1. The shank passes through a hole 10 in attaching-arm 7, which is made larger than the shank, so as to permit vibratory or wobbling motion of the brush, as will be more fully explained. The shank and brush are held in operative position by collars 11, placed, respectively, above and below the attaching-arm. The upper end of the shank consists of a crank 12, having the usual hand-piece 13.

I have only shown two of the type-bars of the machine, which are indicated by 14, the types at their lower ends being indicated by 15.

In use the brush is placed in operative position, as indicated in Fig. 1, and if it has been tilted to place it there is turned into operative position and the joint covered by the sleeve. The attaching-arm is placed over the portion of the machine to which it is to be attached and secured there by the thumb-screw.

In use the operator simply turns a crank. A moment's operation of the crank, owing to the fact that the shank passes loosely through the attaching-arm, is amply sufficient to clean the entire set of types, as the brush in addition to its rotary movement will have an oscillatory movement, it being evident that when the pressure of the hand in turning the crank forces it in any direction, the brush will be swung in the opposite direction and into contact with the types upon that side whether arranged in circular or oval form. In use, as a matter of fact, a portion of the brush passes over the face of each type, after

which the brush passes to the next type, thus swinging around the circle of types and brushing one type after the other and cleaning the whole of them perfectly.

5 Having thus described my invention, I claim—

1. A device for cleaning the types of writing-machines when arranged in circular or oval form, consisting, essentially, of a suitable
10 attaching-arm, a circular horizontally-acting brush of less diameter than the distance between the nearest types, a shank by which the brush is carried and which is loosely journaled in the attaching-arm, and means, as a crank,
15 for turning the loosely-journaled shank so that in addition to its rotary movement an oscillatory movement is imparted to the brush, whereby the brush is brought successively in contact

with every type in the series but does not remain in contact with any special type while 20 in use.

2. A device of the class described, consisting of a circular brush, a shank by which it is carried, a joint between the shank and brush, a sleeve covering the joint and connected to the brush so as to tilt it when the sleeve is raised, and an attaching-arm in which the shank is loosely held, as and for the purpose set forth.

In testimony whereof I affix my signature in 30 presence of two witnesses.

OSCAR COHN.

Witnesses:

MAX W. HENIUS,
A. M. WOOSTER.