

(No Model.)

C. KLAUBERG.
TUMBLER WASHER.

No. 544,855.

Patented Aug. 20, 1895.

Fig. 1

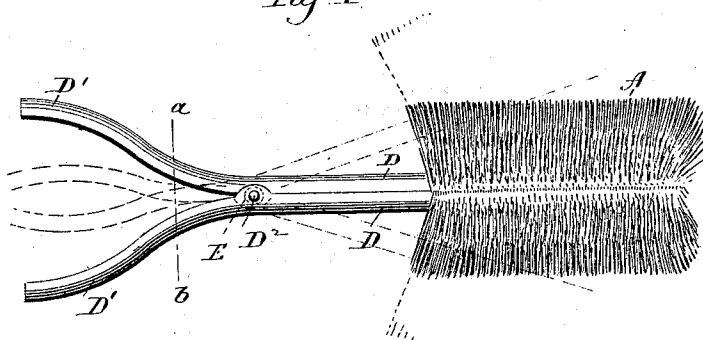


Fig. 2

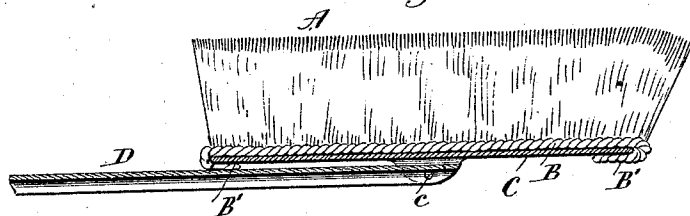


Fig. 3

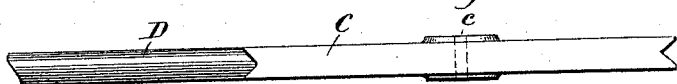


Fig. 4

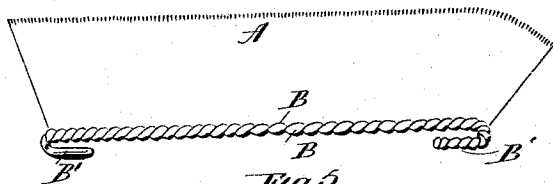


Fig. 5

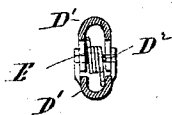
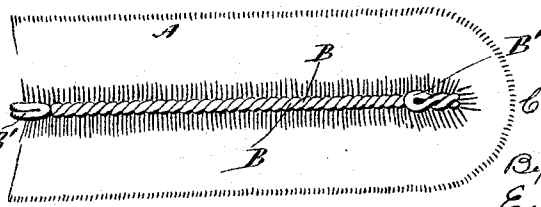


Fig. 6



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES KLAUBERG, OF NEW HAVEN, CONNECTICUT.

TUMBLER-WASHER.

SPECIFICATION forming part of Letters Patent No. 544,855, dated August 20, 1895.

Application filed March 14, 1895. Serial No. 541,748. (No model.)

To all whom it may concern:

Be it known that I, CHARLES KLAUBERG, of New Haven, in the county of New Haven and State of Connecticut, have invented a new
5 Improvement in Devices for Cleaning Tumblers, &c.; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact
10 description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a plan view of a cleaning device constructed in accordance with my invention;
15 Fig. 2, a sectional view through one of the brushes, one of the brush-carriers, and through the outer end of the arm of one of the handles; Fig. 3, a broken view, in inside elevation, of one of the brush-carriers and a
20 portion of the arm to which it is applied; Fig. 4, a detached view in side elevation of one of the brushes; Fig. 5, an inside view thereof; Fig. 6, a view in transverse section of the device on the line *a b* of Fig. 1 and looking
25 toward the pivot joining the handles.

My invention relates to an improved device for cleaning tumblers, chimneys, decanters, and other kindred articles, the object being
30 to produce a simple, compact, conveniently-operated, and effective cleaning device constructed with particular reference to the renewal of its brushes when they become worn.

With these ends in view my invention consists in a cleaning device having certain details
35 of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

As herein shown, the device employs two corresponding brushes, of which the bristles
40 *A* are wound, as it were, into a backing composed of two strips *B B* of wire coiled together, so as to bind the bristles between their coils. As thus made, the brushes have rounded outer and flat inner faces. The
45 coiled ends of the wire are returned inward to form retaining-fingers *B' B'*, by means of which the brushes are removably attached to two pivotal sheet-metal brush-carriers *C C*, notched at their ends to receive the said retaining-fingers and pivoted midway of their
50 length on pins *c* to the outer ends of the arms

D D of the handles *D' D'*, which are, as shown, struck out of sheet metal and pivoted together by a pin *D*². A spring *E*, consisting of a coil and two ends, is combined with the
55 pivot *D*² and handles, so as to exert a constant effort to throw the same apart and bring the arms *D D*, and hence the brushes, together. So far as the handles *D' D'* and the arms *D D* are concerned they are similar to the handles and arms of a glove-stretcher.
60

In using the device the brushes are pressed into the tumbler, chimney, or whatever is to be cleaned while they are as close together as they will go. Then after their introduction,
65 as described, into the article to be cleaned, they are forced against the sides thereof by drawing their handles together against the tension of the spring. When the brushes become worn, they are readily removed from the
70 brush-carriers by springing their retaining-fingers out of the notches thereof, after which new brushes may be applied to the carriers. If desired, each device may be provided with
75 a set of brushes made with particular reference to cleaning different objects and adapted to be interchangeably applied to the brush-carriers.

It is apparent that in carrying out my invention some changes may be made. I would,
80 therefore, have it understood that I do not limit myself to the exact construction shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.
85

I am aware that a lamp-chimney cleaner having two permanently-attached pivotally-mounted brushes is old. I am also aware that
90 a lamp-chimney cleaner having two pivotal handles, each constructed with an arm and each provided with a permanently-attached brush, is old. I do not, therefore, claim either of these constructions broadly, but only my particular construction.
95

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

In a device for cleaning tumblers, chimneys and similar articles, the combination with two
100 handles pivoted together, and each constructed with an arm, of two brush-carriers

pivotally connected respectively with the said
arms, and having their ends notched, and
brushes constructed at their ends with retain-
ing fingers which enter the notches in the ends
5 of the carriers for removably connecting the
brushes with the same, substantially as de-
scribed.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

CHARLES KLAUBERG.

Witnesses:

FRED. C. EARLE,
A. S. HOTCHKISS.