

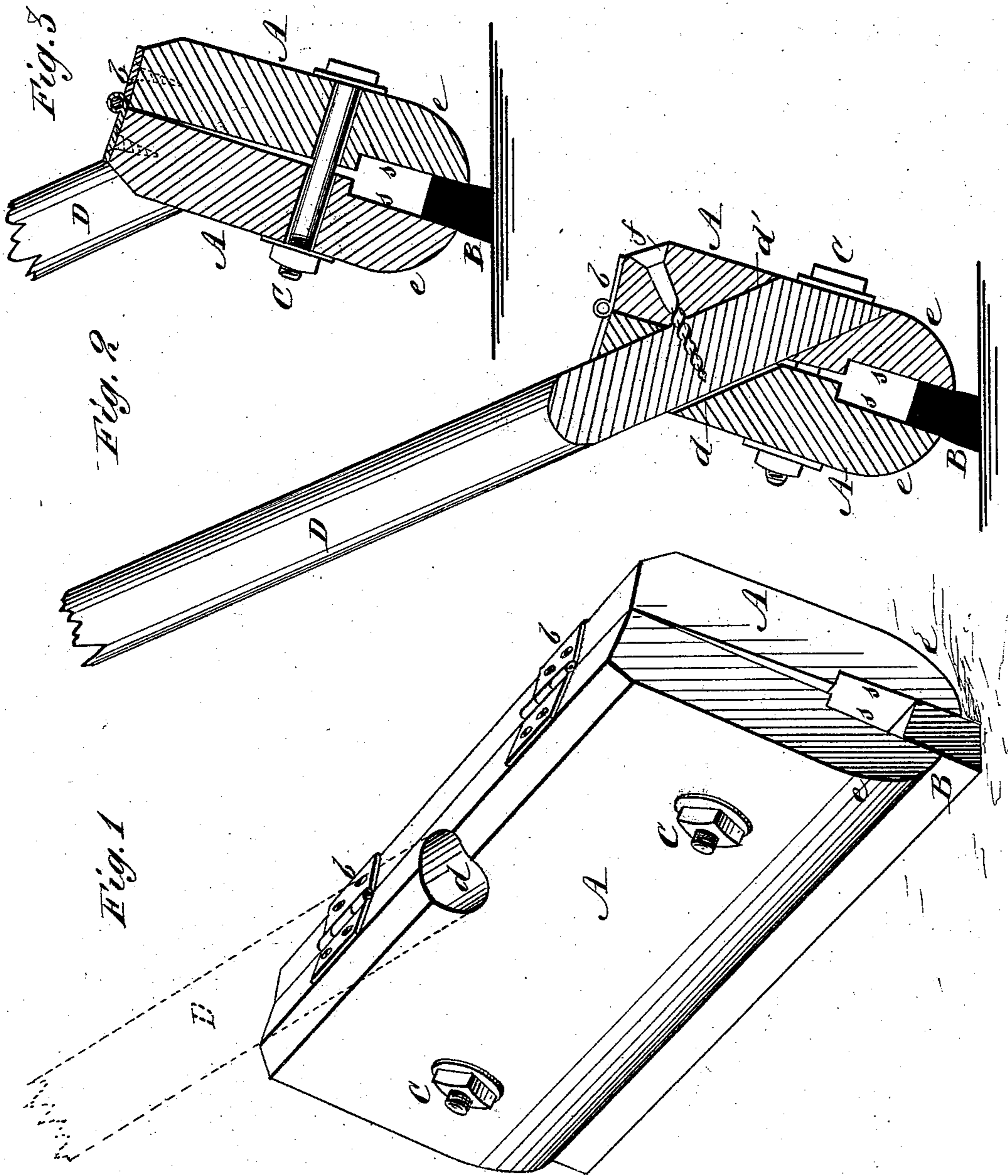
(Model.)

P. O. KING & A. M. CARLSON.

SCRUBBER.

No. 294,634.

Patented Mar. 4, 1884.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PETER O. KING AND ANDREW M. CARLSON, OF VALLEY CITY, DAKOTA TERRITORY.

## SCRUBBER.

SPECIFICATION forming part of Letters Patent No. 294,634, dated March 4, 1884.

Application filed August 25, 1883. (Model.)

*To all whom it may concern:*

Be it known that we, PETER O. KING and ANDREW M. CARLSON, of Valley City, in the county of Barnes and Territory of Dakota, have invented certain new and useful Improvements in Floor and other Scrubbers, of which the following is a full, clear, and exact description.

This invention relates to mops or scrubbers for cleaning floors and for other purposes, in which the scrubbing-surface is formed by a strip of india-rubber or other analogous material clamped by a suitable holder, to which a handle is attached.

The invention consists in a peculiar construction of the clamp or holder, including a hinged attachment of the clamping side pieces to each other along the top of the holder for operation in connection with clamping-screws passing through said side pieces, and an obliquely-arranged hole in or through both of said side pieces for insertion of the handle, whereby we are not only enabled to produce a scrubber of the description above referred to which is substantial and cheap, but one that affords increased facility for inserting the rubber or removing it when necessary to change it, and which will provide for tightening the handle to its place by the operation of clamping the rubber, substantially as hereinafter described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a view in perspective of a scrubber embodying our invention, the handle only being shown in dotted lines. Fig. 2 is a central transverse section of the same with a portion of the handle in section and in full lines, and Fig. 3 is a transverse section near one end of the scrubber in line with one of its clamping screws or bolts.

A A are the two jaws or side pieces of the clamp or holder, which may be made of hard wood, and which are connected together along their rear or top by hinges *b b*, and are beveled or rounded off on their front or front and back lower outside surfaces, *e*, to prevent contact with the floor or obstacles thereon. These side pieces are recessed along their inner faces

on their front or lower portion, as at *s s*, to receive within them the scrubbing-strip B, of rubber or other analogous material, and they are adjusted toward each other to hold the rubber in place by any number of clamping screws or bolts, C, arranged to pass through said side pieces at a suitable distance from their center of adjustment, as formed by the hinges. Thus hinging the side pieces of the clamp together, they are better retained in their proper relative positions from twist or getting loose than where the same are dependent upon the clamping-screws alone, and a slight adjustment of the clamping-screws suffices either to release or securely hold the rubber strip. This construction adds materially to the substantial character of the scrubber. Furthermore, we dispense with any special socket for the handle D by making an oblique hole, *d d'*, through both of the side pieces A A, for reception of the inner end of the handle, the obliquity being such as to hold the scrubber at a proper working angle, and so that the lower margin of the projecting portion of the rubber B, which may be slightly beveled, will bear fairly and squarely on the surface being scrubbed. The one portion, *d*, of this hole—that is, the portion of it which passes through the inner side piece A—should be slightly larger than the portion *d'* of it, which passes into or through the outer side piece, to afford room for adjusting the clamp by the screws C. Any broom or mop handle that will freely enter this obliquely-apertured clamp or holder may be used as the handle of the scrubber, so that a special handle of regular size may be dispensed with, if desired. The handle when inserted might be secured by a locking wood-screw, *f*, arranged to pass through the outer side piece of the clamp and to penetrate the handle, as shown in Fig. 2; but such fastening may, if desired, be done away with, inasmuch as the obliquity of the hole within or through which the handle fits serves, in conjunction with or by the action of the hinged side pieces, A A, as the clamping-bolts are screwed up to tighten the hold upon the rubber strip, to cause said side pieces or jaws to bind upon the handle to secure it in place.

A scrubber constructed as described may be got up cheap, and be sold either with or

without the handle, and with any number of changeable rubber strips to provide for wear. It may be made of different sizes and the rubber strips of different widths and thicknesses to suit the requirements of purchasers.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. In a scrubber in which the scrubbing-surface is formed by a strip of rubber or other analogous material held in place by an adjustable clamp, the combination, with the scrubbing-strip B, of the clamping-jaws or side pieces, A A, constructed to receive the inner portion of said strip within them, the hinges *b b*, by which said jaws are connected together along

their tops, and one or more adjusting-screws, C, arranged intermediately of the hinges and scrubbing-strip, substantially as specified.

2. The combination of the hinged jaws or clamping side pieces, A A, of the scrubber, having an oblique hole, *d d'*, in or through both of them for reception of the handle, the adjusting-screws C, and the yielding or elastic scrubbing-strip B, essentially as shown and described.

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Witnesses:

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