

(No Model.)

J. BROOKS.

Machine for Scouring Sewing Machine Needles.

No. 240,226.

Patented April 19, 1881.

Fig. 1.

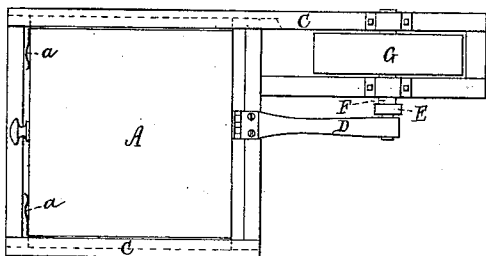


Fig. 3.

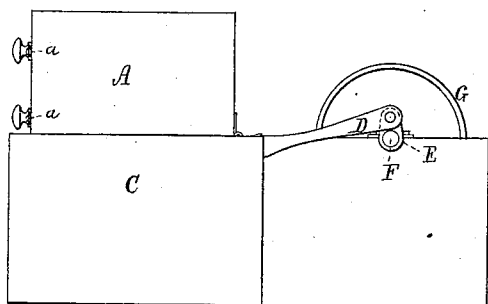


Fig. 2.

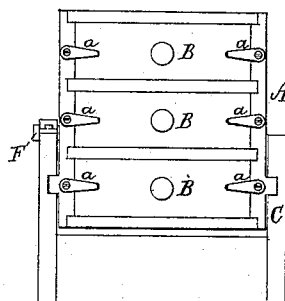


Fig. 4.

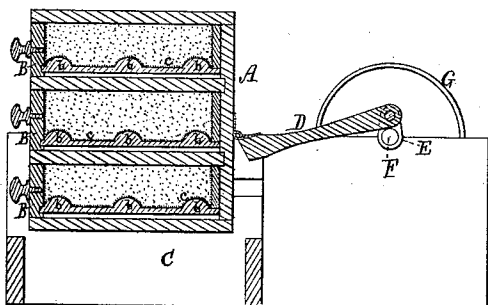
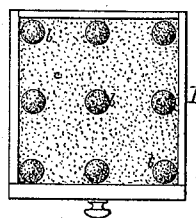


Fig. 5.



Witnesses.
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JOHN BROOKS, OF BROCKTON, MASSACHUSETTS.

MACHINE FOR SCOURING SEWING-MACHINE NEEDLES.

SPECIFICATION forming part of Letters Patent No. 240,226, dated April 19, 1881.

Application filed March 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN BROOKS, of Brockton, of the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Machinery or Apparatus for Scouring Sewing-Machine Needles; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

10 Figure 1 is a top view, Fig. 2 a front end view, Fig. 3 a side elevation, and Fig. 4 a longitudinal section, of a machine embodying my invention. Fig. 5 is a top view of one of its drawers.

15 My said invention consists, first, in a scouring receptacle or drawer having raised projections and an emery or an abrasive lining on its inner surface, and provided with means or mechanism for imparting to it (the said receptacle or drawer) a quick reciprocating motion; second, in two or more receptacles or drawers having raised projections and an emery or abrasive lining on the inner surface of each of such receptacles or drawers, in combination not only with a casing for holding such receptacles or drawers, but with a means of supporting and guiding such casing, and with mechanism for imparting to it a quick reciprocating movement, as and for the purpose hereinafter explained.

20 In the drawings, A denotes the casing or case, having within it three drawers, B B B, and also two turn-buttons or springs, *a a*, to each, to hold the drawer back in place in the case while such case may be in rapid reciprocating rectilinear movement. This case is placed within a supporting and guide frame, C, to which the case is adapted, so as to be capable of moving rectilinearly.

30 A connecting-rod, D, hinged to the case and pivoted upon the wrist of a crank, E, projecting from a shaft, F, supplied with a driving-pulley, G, serves, when the shaft is put in revolution, to impart to the case and its drawers a reciprocating rectilinear motion. Each drawer has extending up from its bottom a series of projections, *b*, each of which has the form of a low segment of a sphere. These projections

and the internal surface of the drawer have upon or fixed to them a coating, *c*, of emery or other proper abrasive material. Without the segmental-shaped projections and their abrasive coatings of each drawer the apparatus could not thoroughly scour sewing-machine needles whose shanks are larger in diameter than their blades and taper concavely from blade to shank; but with such projections the scouring of the straight and concave portions of the surface of each needle can be thoroughly accomplished.

60 In using the needle-scourer each compartment, receptacle, or drawer, provided with the projections and abrasive coating, is first to be opened and charged with a quantity of the needles, after which each drawer so charged is to be forced back into its case and latched there by means of the springs *a*, which, by being pivoted to the case, can be turned on or off the front of the drawer. Next, the case and its drawer or drawers should be rapidly reciprocated within the supporter of such case until the scouring of the needles may have been properly effected.

I claim as my invention as follows, viz:

1. A scouring receptacle or drawer having raised projections, substantially as described, and an emery or abrasive lining to such and to the inner surface of such receptacle or drawer, and provided with means or mechanism for imparting to the said drawer or receptacle a quick reciprocating motion, as set forth.

2. A set of drawers having raised projections, essentially as described, on their bottoms, and an emery or abrasive lining on such projections and on the inner surface of each drawer in the set, in combination with a case for holding such drawers, and with means of supporting such case while in motion, and means or mechanism for imparting to it a reciprocating movement, as and for the purpose substantially as explained.

JOHN BROOKS.

Witnesses:

R. H. EDDY,
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