

S. E. GUILD.
Machines for Setting Card-Teeth.

No. 148,051.

Patented March 3, 1874.

Fig. 1.

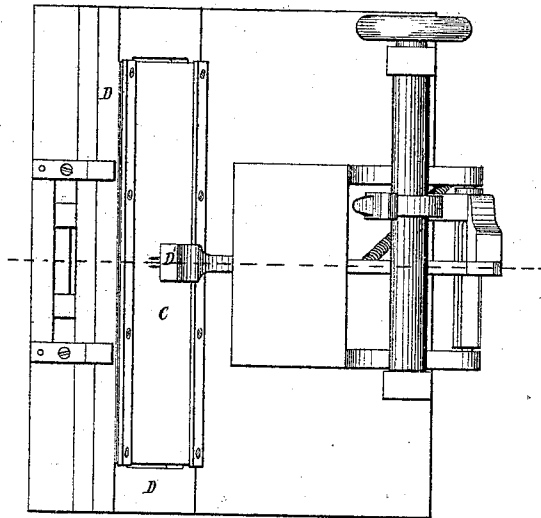


Fig. 2.

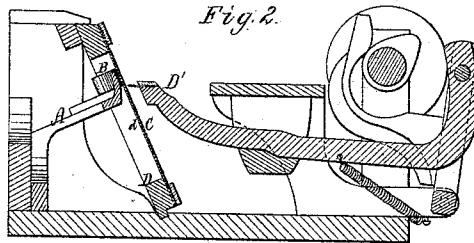
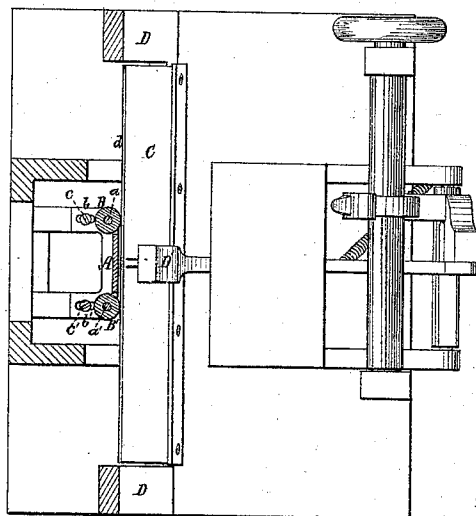


Fig. 3.



Witnesses.

S. N. Piper.
L. N. Hoellen.

Samuel E. Guild.

by his attorney
R. H. Eddy

UNITED STATES PATENT OFFICE.

SAMUEL E. GUILD, OF WALPOLE, MASSACHUSETTS, ASSIGNOR TO EDWARD P. STETSON, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR SETTING CARD-TEETH.

Specification forming part of Letters Patent No. **148,051**, dated March 3, 1874; application filed December 3, 1873.

To all whom it may concern:

Be it known that I, SAMUEL E. GUILD, of Walpole, of the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Machinery for Setting the Teeth of "Card-Clothing," or mechanism for carding cotton, wool, or other fibrous material; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a top view; Fig. 2, a longitudinal section; Fig. 3, a horizontal section of my invention, and the adjacent parts of a card-setting machine to operate therewith.

In making what is termed "card-clothing" it is now customary to substitute for a sheet of leather to receive the wire teeth a sheet of thick cloth covered on one side with a coating of india-rubber or gutta-percha. My improvement is designed to prevent the injurious effects or consequences which result from the elastic coating adhering to the rest, against which it is borne by the pricker and setter, while in the act of pricking the sheet for reception of the teeth, and setting the teeth in the holes made by the pricker. As the stratum or layer of rubber is more or less adhesive, and comes next to the machine-rest, such layer is liable to stick or adhere to the rest when pressed up against it. Owing to such adhesion, the cloth, when next moved across the rest, is apt to become strained, so as to more or less move out of time or place the holes pricked in it, and the teeth set in them, or be productive of other bad consequences.

In carrying out my invention, I combine

with the rest a pair of rollers, arranged at its ends, and to project inward beyond the bearing-surface of the said rest, and against the rubber-coating of the cloth, so as to hold it off, and cause it to spring off the rest after each advance of the pricker or setter.

In the drawings, the rest is shown at A, and the rollers at B B', the pivots or journals *a a'* of said rollers being projected upward from adjustable slides, *b b'*, secured to the rest by clamp-screws *c c* going through slots in such slides. The sheet of cloth, covered with the rubber coating *d*, is shown at C as fixed to a frame, D, constituting part of a card-tooth-setting machine, such frame having, when the machine is in operation, an intermittent rectilinear motion, in order to move the sheet of cloth properly across the rest A. The setter and pricker is shown at D', it being designed to operate as it does in ordinary card-setting machines.

In order to force the sheet off the rest, a spring or springs, wire or wires, may be substituted for the rollers; but I prefer the latter, as they, by rolling upon the rubber, are not likely to scrape or mar it, or stick to it.

What I claim in a machine for setting card-teeth is—

The combination of rollers B B' with the sheet-rest A, so as to operate therewith, and with the sheet to receive the card-teeth, all substantially as and for the purpose as explained.

SAMUEL E. GUILD.

Witnesses:

R. H. EDDY,
J. R. SNOW.