

UNITED STATES PATENT OFFICE.

JOSEPH M. GODDARD, OF FITCHBURG, MASSACHUSETTS.

IMPROVEMENT IN RATTAN-MACHINES.

Specification forming part of Letters Patent No. 175,071, dated March 21, 1876; application filed March 2, 1876.

To all whom it may concern:

Be it known that I, JOSEPH MYRON GODDARD, of Fitchburg, Massachusetts, have invented certain new and useful Improvements in Rattan-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view, showing the cutting-guides of a cane-shaving machine. Fig. 2 is a vertical longitudinal section of the cutter-heads through line *x x* of Fig. 1. Fig. 3 is a cross-section through the line *y y*. Fig. 4 is a vertical section through *z z*.

My invention relates to machines for splitting and shaving rattan; and it consists in the arrangement of the cutting-guides whereby a fresh cutting-edge is continuously presented to passing strips of rattan, to avoid unequal wear upon the knives by the hard enamel of the material and insure an evenness of width in finished chair-cane.

In the said drawings, A is a bifurcated stand, having the arms *a a*, and provided with the studs *a' a'* for securing it to the frame of the machine. On each end of these arms is a journal, B, provided on its inner surface with a female screw. Into this journal passes a hollow sleeve, I, with a corresponding male screw. Within the sleeve I is another sleeve, 2, having on one end a flange, 3, of a diameter corresponding to the inside of sleeve I, and on the other end a screw-thread for the reception of a nut, 4, provided with an offset, *d*, to fit snugly within the end of another journal, B'. Through the sleeve 2 passes a screw-bolt, C, to clamp the circular knife-guide *b* against the flange 3. Around the sleeve I is a nut, E, its face bearing against the journal B, and having a screw-thread corresponding to that on sleeve I, for the purpose of adjusting the relation between the sleeve I and the journal B, so as to throw the cutter-guides *b b* nearer together or farther apart. Keyed to the sleeve 2, near its outer end, is a spiral gear-wheel, *c*, which

meshes into an endless screw, *d'*, working in a box, *e*, in the bottom of the journal B'. A rod, D, on which is this endless screw *d*, passes to a hollow head, F, and into it, where it has, on its end, a spiral gear-wheel, E', sitting at a slight angle to the face of the head, because the ends of the rods converge after leaving the boxes *e e*. The beveled gear-wheels E' mesh into right and left hand screw-threads *g g* on a shaft, G, which is actuated by the machinery operating the other parts of the rattan-shaving machine.

The operation is as follows: The machinery revolves the shaft G, and right and left screws *g g* turn the gears E' E' in opposite directions. The revolution of the gears E' E' rotates the shafts D D, and they, in turn, through the medium of the screws *d d*, rotate the gear-wheels *c c*, which turn the sleeves 2, and with them the knives *b b*, thus continuously presenting a fresh cutting-edge of the knife-gages against the rattan to be trimmed, thus preserving a regular and equal wear of the knives in all their parts, and secures an equal width to the finished chair-cane.

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

1. In combination with a rattan-shaving machine, continuously revolving cutting-gages *b b*, substantially as and for the purpose set forth.

2. The journal B and nuts E, in combination with the sleeve I, substantially as described.

3. The shaft G, with right and left screws *g g*, screw-gears E' E', and shafts D, with screws *d*, in combination with the gears *c*, sleeve 2, screw-bolts C, and knives *b*, as and for the purpose described.

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No. 175,072.

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Fig. 1.

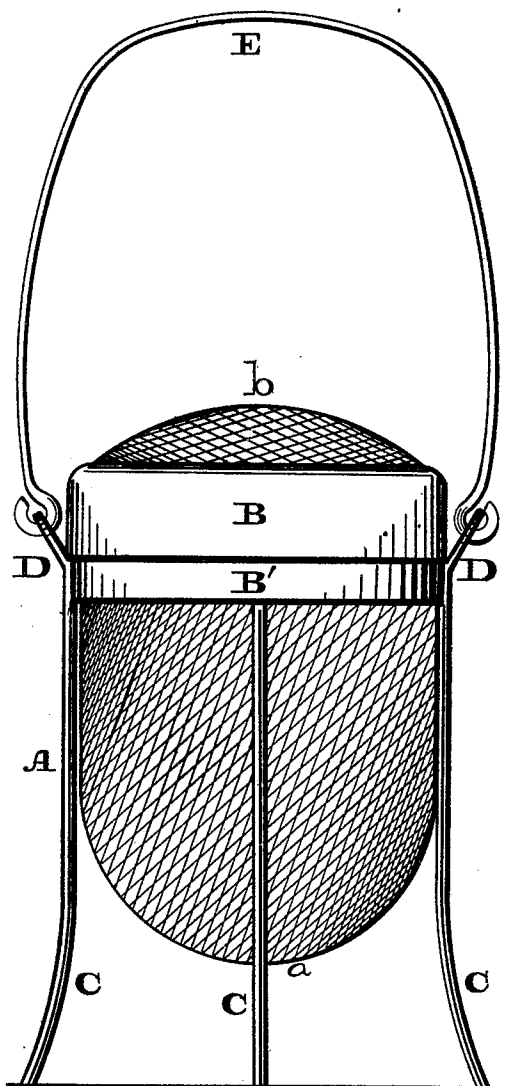


Fig. 2.

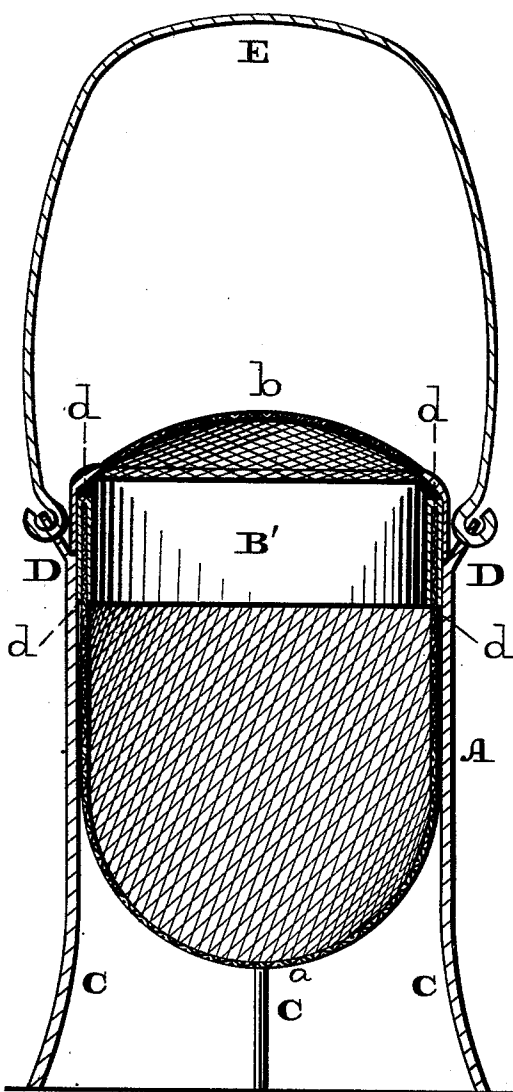
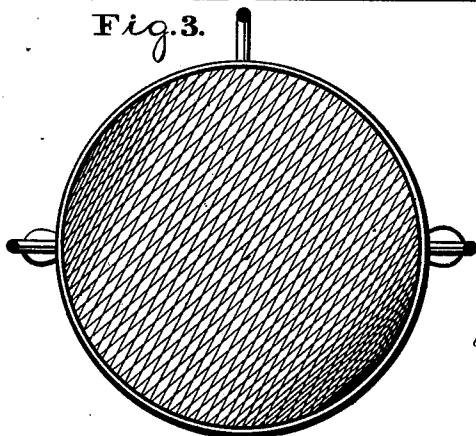


Fig. 3.



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