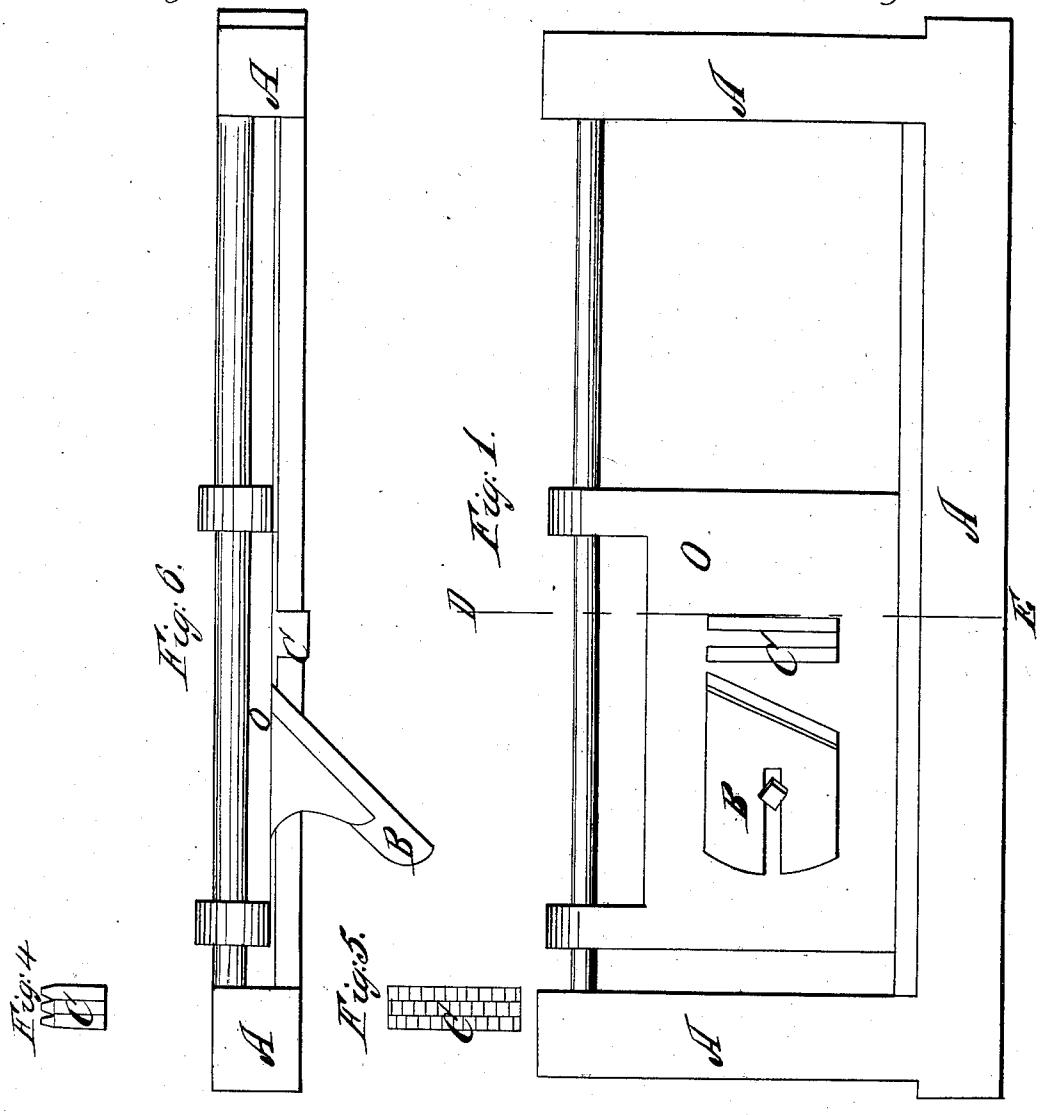
W. H. Noyes,

Slivering Wood.

No. 27,597. Patented Mar. 20, 1860.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM H. NOYES, OF GARDINER, MAINE, ASSIGNOR TO GIDDEON S. PALMER, OF SAME PLACE.

MACHINE FOR REDUCING WOOD TO SLIVERS.

Specification of Letters Patent No. 27,597, dated March 20, 1860.

To all whom it may concern:

Be it known that I, WM. H. NOYES, of Gardiner, in the county of Kennebec and State of Maine, have invented a new and useful Improvement on Machines for Reducing Wood to Slivers or Fine Shavings, for the purpose of stuffing mattresses, from wood, the wood being reduced by splitters arranged to split the wood and make the slivers or shavings of any desired fineness, followed by a common planer for planing off the wood and making the slivers or shavings and the splitters and planer setting in a stock which is made to traverse back and forth by the application of mechanism and power for the purposes above described, of which the following is a full and exact description.

Figure 1, is a detached side elevation of a machine showing the sliding stock O, with the slitters C, and planer B. Fig. 2 is an end view of the stock showing the splitters. Fig. 3 is a side view of one section of splitters. Fig. 4 is an end view showing three sections of splitters together.

The object of the machine here considered is the reducing of wood to fine shavings for stuffing mattresses, cushions and other articles.

The nature of the invention consists in the employment in front of the cutter of a series of splitting knives so arranged with reference to each other as to score the surface of the bolt longitudinally without so compressing the fiber as to cause it to bind upon the said knives, and obstruct their operation, the details of construction and operation being as follows.

In the drawing, A represents a frame for holding the sliding stock O, with the cutter B and splitters C, which are constructed of plates of metal with a lance shaped point. Two, three or more of these plates are secured together so that the points shall stand posterior and laterally to each other. The object in setting the points in this manner will be apparent to any one from the following. When the wood is to be split into fine shavings and the splitters are all put into one tier or row, they of necessity must compress the wood in passing between the points, thereby clogging the splitters to such a degree that the machine must be stopped often to remove the fibers of wood from the splitters. In setting the first tier of points with more space between them reduces the compressure of the wood, thereby preventing their liability to clog, the second tier are set posterior and laterally with the former to give the wood time to regain its former state, after leaving the first tier of points and before coming in contact with the second tier, each posterior tier arranged so that the points shall stand laterally with the former, for the purpose of dividing the wood to the desired fineness, after which they are planed off by the planer B. The cutter and splitters being secured in a reciprocating stock and the bolt fed up to it by suitable mechanism.

Having described my invention and the operation thereof, I claim—

The combination in a sliding stock O of the cutter B, and splitter C made up of a series of knives in rows so arranged that the posterior rows shall score the spaces left by the foremost row substantially in the manner and for the purpose specified.

WM. H. NOYES. [L. S.]

In presence of—

C. DANFORTH,

GEO. W. WAITT.