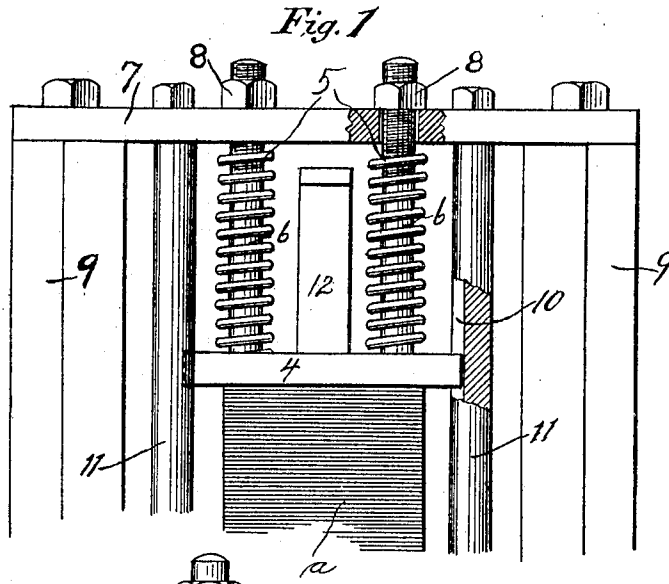
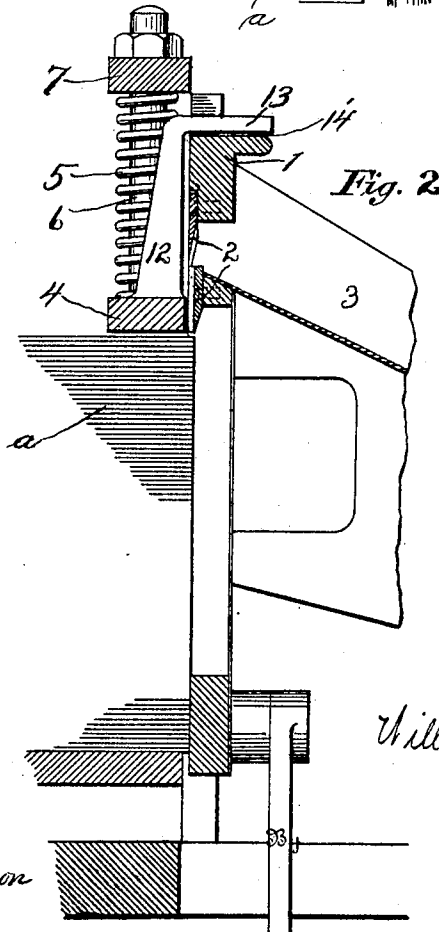


PATENTED APR. 21, 1908.

MACHINE FOR CUTTING FORMS FROM SHEET STOCK.

APPLICATION FILED NOV. 28, 1906.



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MACHINE FOR CUTTING FORMS FROM SHEET STOCK.

No. 885,254.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed November 28, 1906. Serial No. 345,572.

To all whom it may concern:

Be it known that I, WILLIAM F. HUTCHINSON, of Nyack, Rockland county, State of New York, have invented a new and Improved Machine for Cutting Forms from Sheet Stock, of which the following is a full, clear, and exact description.

This invention relates to new and useful improvements in that class of machines which are adapted for use in cutting articles of various forms from sheet stock and particularly to cutting such articles from wood veneers. My invention will work as well, however, in cutting sheet stock in the form of straw board or other material. The machine is specifically intended, however, for use in cutting wooden tooth picks from veneers. It is customary to cut picks or other similar or analogous things from strips of veneer which are thin at the edges and the width of which corresponds to the length of the pick or other article and to cut such articles from single strips or at most double strips of stock.

My invention is intended to provide means for cutting simultaneously a great quantity of stock strips into picks or other articles and in order that the machine may be simplified as much as possible, two knives or dies are employed, one following the other. The first shaves the front edge of a large series of stock strips and the second following immediately behind shapes the second edge of the articles to be cut as is known in practice.

My invention, however, has for an object to provide novel means to hold the stock pressed very firmly together at a point near where the cutting knives engage the same.

With the foregoing and other objects in view, the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this specification wherein like characters denote corresponding parts in the several views, in which—

Figure 1, is a fragmentary view of a machine, partly in front elevation and partly in

section, illustrating the invention; and Fig. 2, is a view partly in section and partly in side elevation of the invention.

In the operation of the machine, the stock *a*, is fed forward a distance corresponding to the width of a tooth pick against the lower part of the cross head 1. As the mechanism for affording such movement forms no part of the present invention, a description and illustration thereof is believed unnecessary. As the cross head 1, and knives 2, carried thereby, descend, the lower knife cuts off the waste material which falls upon the floor and the upper knife severs the complete article from the stock and the several articles cut from the several strips fall into the chute 3, and thus the finished article and the waste is conveniently separated.

As it is desirable to have the stock pressed very firmly together at a point near the knives, a presser foot 4, bears heavily on the top being pushed into forcible engagement with the stock by the heavy springs 5, which are coiled around the guide posts 6, these being carried in the cross piece 7, in which they move and to which they are held by the nuts 8, or equivalent fasteners. The cross piece 7, is held on the posts 9, which are suitably secured to the sides of the frame of the machine proper, (not shown) and the presser foot is guided in slots 10, in the posts 11, which are rigidly secured to the cross piece 7, and to the frame of the machine below.

Obviously, the presser foot must be released to permit the feeding of the stock and so the following means is provided for releasing the presser foot at each upstroke of the knives 2, and the cross head 1. The presser foot has an arm 12, which extends upwardly and then forwardly as shown at 13, and this forward extension comes into the path of the cross head 1. Thus the upstroke of the cross head 1 will lift the presser foot against the tension of the springs 5, and at this moment the stock will be fed forward. To prevent a shock the cross piece should be cushioned as shown at 14.

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

A machine of the character described comprising a stock feed, posts carried by the machine arranged on opposite sides of the stock feed, said posts having slots, a spring pressed foot movable in the slots of the posts and extending transversely of the stock feed, and a reciprocating cross head carrying knives to

sever the stock, and an angular arm carried by the foot, said cross head being arranged to strike the arm to elevate the same.

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