

No. 833,187.

PATENTED OCT. 16, 1906.

W. L. WARD.
MANUFACTURE OF NUTS.
APPLICATION FILED MAY 16, 1905.

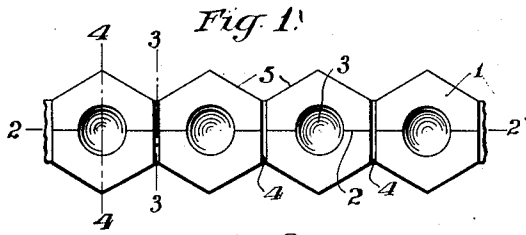
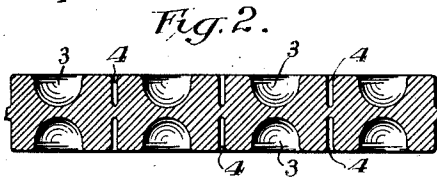
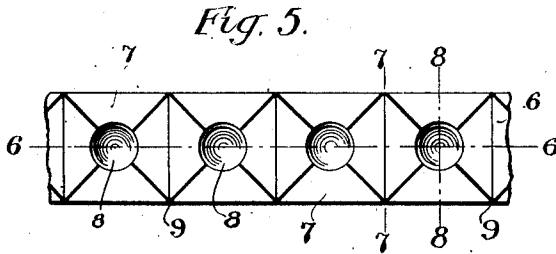
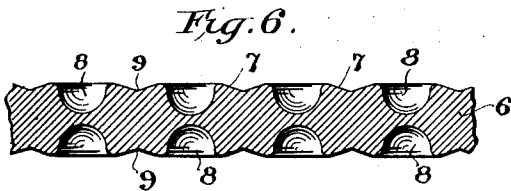
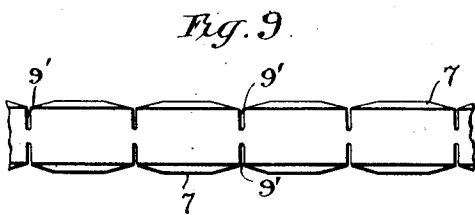


Fig. 11.

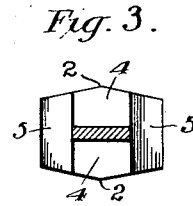
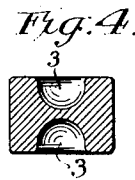


Fig. 7.

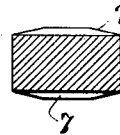
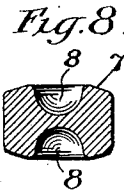
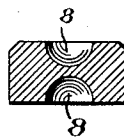


Fig. 10.



Witnesses:-
Louis H. Buck.
John M. Koch

Inventor:-
Wm. L. Ward
by Charles N. Butler
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM L. WARD, OF PORT CHESTER, NEW YORK.

MANUFACTURE OF NUTS.

No. 833,187.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed May 16, 1905. Serial No. 260,632.

To all whom it may concern:

Be it known that I, WILLIAM L. WARD, a citizen of the United States, residing at Port Chester, in the county of Westchester, State of New York, have invented certain Improvements in the Manufacture of Nuts, of which the following is a specification.

This invention relates to a product in the manufacture of nuts which effects a saving of material and time, being readily produced and transformed into finished nuts with practically no scrap waste.

The nature and characteristic features of the improvements will more fully appear by reference to the following description and the accompanying drawings in illustration thereof, of which—

Figure 1 is a plan view of a bar of metal nut-blanks made in accordance with my invention. Fig. 2 is a sectional view thereof, taken on the line 2 2 of Fig. 1. Fig. 3 is a sectional view thereof, taken on the line 3 3 of Fig. 1. Fig. 4 is a sectional view thereof, taken on the line 4 4 of Fig. 1. Fig. 5 is a plan view of a second form of the invention. Fig. 6 is a sectional view taken on the line 6 6 of Fig. 5. Fig. 7 is a sectional view taken on the line 7 7 of Fig. 5. Fig. 8 is a sectional view taken on the line 8 8 of Fig. 5. Fig. 9 is a side elevation of a modified form of the construction shown in Fig. 5. Fig. 10 is a transverse sectional view through the center of a faced nut-blank, and Fig. 11 represents a section of a drilled nut-blank.

In Figs. 1 to 4, inclusive, the strip of metal shown comprises the nut-blanks 1, having the longitudinal ridges or crowns 2 on the faces thereof and the sinks 3 centrally dis-

posed with reference to such faces, the several blanks being divided by the transverse nicks or depressions 4 and the bar having serrated edges 5 to provide for the production of hexagonal blanks when separation is effected in the planes of the nicks.

In Figs. 5 to 9, inclusive, the bar 6 has the symmetrical pyramidal crowns 7 on the faces thereof with the centrally-disposed sinks 8 therein, the blanks being divided by the transverse depressions 9 of Figs. 5 and 6 or the extended depressions or nicks 9' of Fig. 9. These forms can be rolled or pressed to shape readily, rapidly, and without waste. The metal is disposed so that upon separating the blanks they can be brought to approximately the final form by pressure and then drilled and trimmed with little loss of material, Fig. 8 representing a section of a blank before facing, Fig. 10 representing a section after facing, and Fig. 11 representing a section after boring.

Having described my invention, I claim—

1. A nut-blank having crowns and sinks on the opposite faces thereof, substantially as specified.

2. A strip of nut-blanks respectively provided with crowns and sinks on the opposite faces, said faces being separated by depressions or nicks, substantially as specified.

In testimony whereof I have hereunto set my hand, this 12th day of May, 1905, in the presence of the subscribing witnesses.

WILLIAM L. WARD.

Witnesses:

R. J. SNYDER,
JOSEPH HAIGHT.