

(Model.)

N. DU BRUL.
END OPENING WOODEN CIGAR MOLD.

No. 530,403.

Patented Dec. 4, 1894.

FIG. 1.

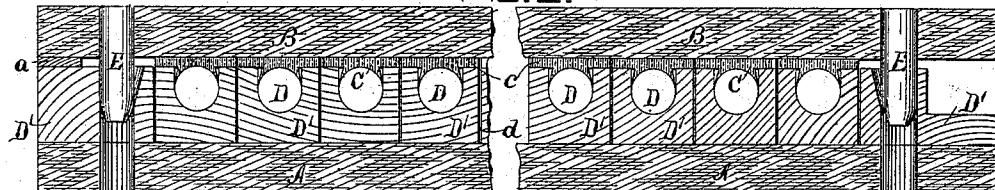


FIG. 2.

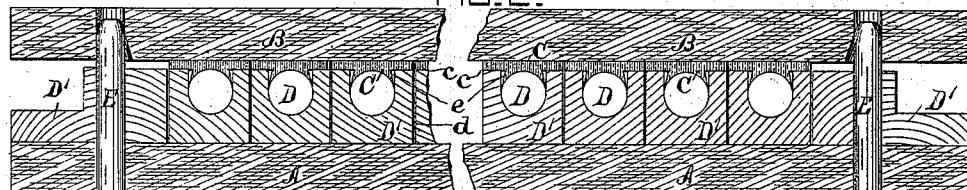


FIG. 3.

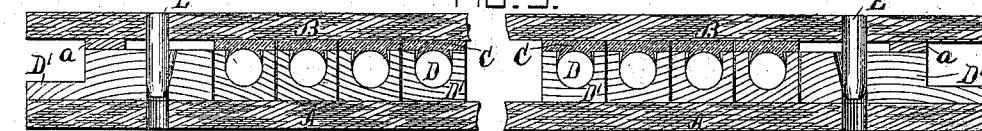


FIG. 4.

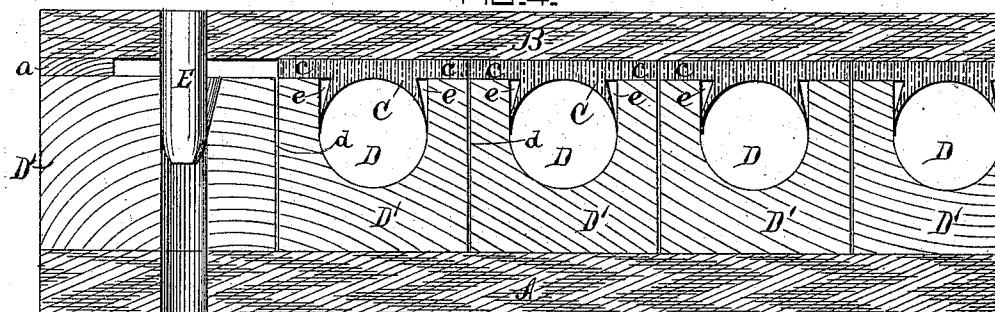
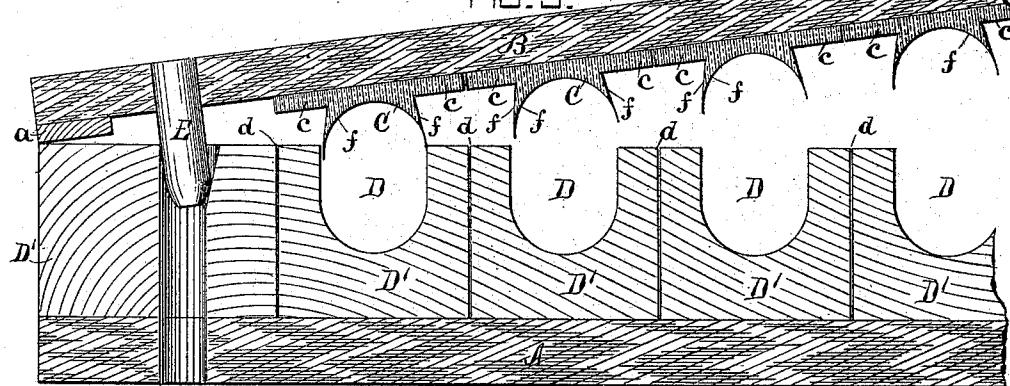


FIG. 5.



Witnesses

Walter E. Allen.

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UNITED STATES PATENT OFFICE.

NAPOLEON DU BRUL, OF CINCINNATI, OHIO.

END-OPENING WOODEN CIGAR-MOLD.

SPECIFICATION forming part of Letters Patent No. 530,403, dated December 4, 1894.

Application filed September 21, 1894. Serial No. 523,704. (Model.)

To all whom it may concern:

Be it known that I, NAPOLEON DU BRUL, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented an Improvement 5 in End-Opening Wooden Cigar-Molds, of which the following is a specification.

My invention relates to an important improvement in the construction of end-opening wooden cigar-molds.

The object of my invention is to provide a more durable mold of this kind than heretofore produced, so constructed, as to obviate the liability of the sticking or binding of the 15 cups in the matrices which sticking or binding has resulted in the breaking off of the cups when the upper and lower members are taken apart endwise.

The features of my invention will be fully 20 set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my improved end-opening wooden cigar-mold which is provided with cups having the grain of the wood vertical and the mold adapted to be opened from one end. Fig. 2, is a similar section showing a modified form 25 of construction. Fig. 3 is another modification of that shown in Fig. 1, but of reduced size in which the mold is provided with cups having the grain of the wood diagonal. Fig. 4 is an enlarged section of Fig. 1. Fig. 5 is a similar view partly opened.

In order to provide an end-opening wooden cigar-mold adapted to the wants of the trade it is necessary to have the wooden cups formed with fin edges which make a close fit to the sides of the matrices. Metal cigar-molds 35 have been used to some extent to accomplish this result, but metal molds are not as satisfactory as wooden molds, because the tobacco does not dry out so quickly and uniformly.

The cups of the end-opening wooden cigar-molds hitherto constructed have given great 40 difficulty in use because of the swelling of the cups and their sticking to the matrices, and the accidental breaking off of the cups when the upper member is removed endwise 45 from the mold. It has been found necessary to make the cups with the grain standing either vertically or obliquely, first so as to get

the sharp naked edge, and second so as to prevent the edges from splitting off. The concave portion of the cups have hitherto 55 been varnished or finished with some water proof material to prevent their absorbing too much of the moisture and so causing them to swell unduly, but still with this precaution they swell more or less and occasion difficulty. 60 My invention overcomes this defect and enables me to finish the sides as well as the concave faces of the wooden cups with varnish or other similar water proof material, and at the same time allow the molds to be opened 65 from one end without breaking off the cups.

A represents the bottom board of the cigar-mold; B, the top of the mold to which the wooden cups C are attached. These cups are made on the end of the wood with the grain 70 of the wood vertical as shown in Figs. 1, 2, 4 and 5 or diagonal as shown in Fig. 3.

D represents the matrices which are formed in a block D' which is securely attached to the bottom board. The sides of said matrices 75 are vertical.

E represents the dowel pins which are shown in Fig. 1, as attached to the top and entering orifices in the matrix block which will permit of the tilting of the top board on the bottom 80 board until the dowel pins and orifices are disconnected. In Fig. 2 the dowel pins are shown as projected up through the matrix block and entering the orifices in the top. These constructions are equivalent. 85

a represents an extension block outside of the dowel pin provided for the purpose of extending the turning part of the top when it is lifted off from one end so as to prevent the breaking off of the end cups; but in order to 90 effectually obviate this difficulty and to prevent the cups from swelling and sticking to the sides of the matrices, and also to allow the sides of the cups to be varnished, I taper the sides of the cups from their fin edges upward and inward to the base of the attaching flanges c leaving a space e between the sides of the cup and the matrix, thus enabling the sides as well as the faces of the cups to be 95 varnished as shown at f and effectually preventing the swelling and sticking of the cups, as well as allowing the top to be taken off by force applied at one end without the least danger of breaking off the end cups, as the 100

space between the cups and the matrices forms a turning space for the cups, the edge engagement of the cups with the sides of the matrices not being sufficient to produce any great amount of friction or sticking.

⁵ *d* represents saw kerfs cut in the matrix block which allows a slight yielding of the sides of the matrices when the cups are lifted off. By forming the cups on the end of the wood and tapering the fin edges of the cups, I obtain yielding sides to the cups which are not liable to break when bent inward to conform to the sides of the matrices and will readily yield when turned in the matrices on the opening of the mold endwise. I thus obtain a more durable cigar-mold by which the fin-edges of the cups are better preserved and allowing the cups to be thoroughly protected by finishing the entire surfaces of the cups ¹⁵ ²⁰ with varnish or other water proof material.

I am aware that it is not broadly new to provide a member of a wooden cigar mold with cups having tapered sides and I do not therefore claim such tapered cups broadly.

²⁵ Having thus described my invention, the

following is what I claim as new therein and desire to secure by Letters Patent:

An end opening wooden cigar mold comprising an upper member and a lower member, the lower member having saw-kerfs providing a series of wooden matrices formed with slightly yielding vertical sides, and the upper member having a series of wooden cups formed on the end of the grain of the wood, with concave faces, with attaching flanges, and with naked fin edges which taper upward and inward on each side toward the flanges leaving spaces or openings between the inclined sides of the cups and the vertical sides of the matrices to permit the cups to be varnished and to be turned in the yielding matrices without sticking or binding so as to avoid the breaking of the cups in the opening of the mold from end to end; substantially as shown and described.

NAPOLEON DU BRUL.

Witnesses:

E. E. WOOD,
W. R. WOOD.