

No. 697,706.

Patented Apr. 15, 1902.

N. DU BRUL.

GUIDE PLATE FOR CIGAR WRAPPER CUTTING MACHINES.

(Application filed June 4, 1901.)

(No Model.)

Fig. 1.

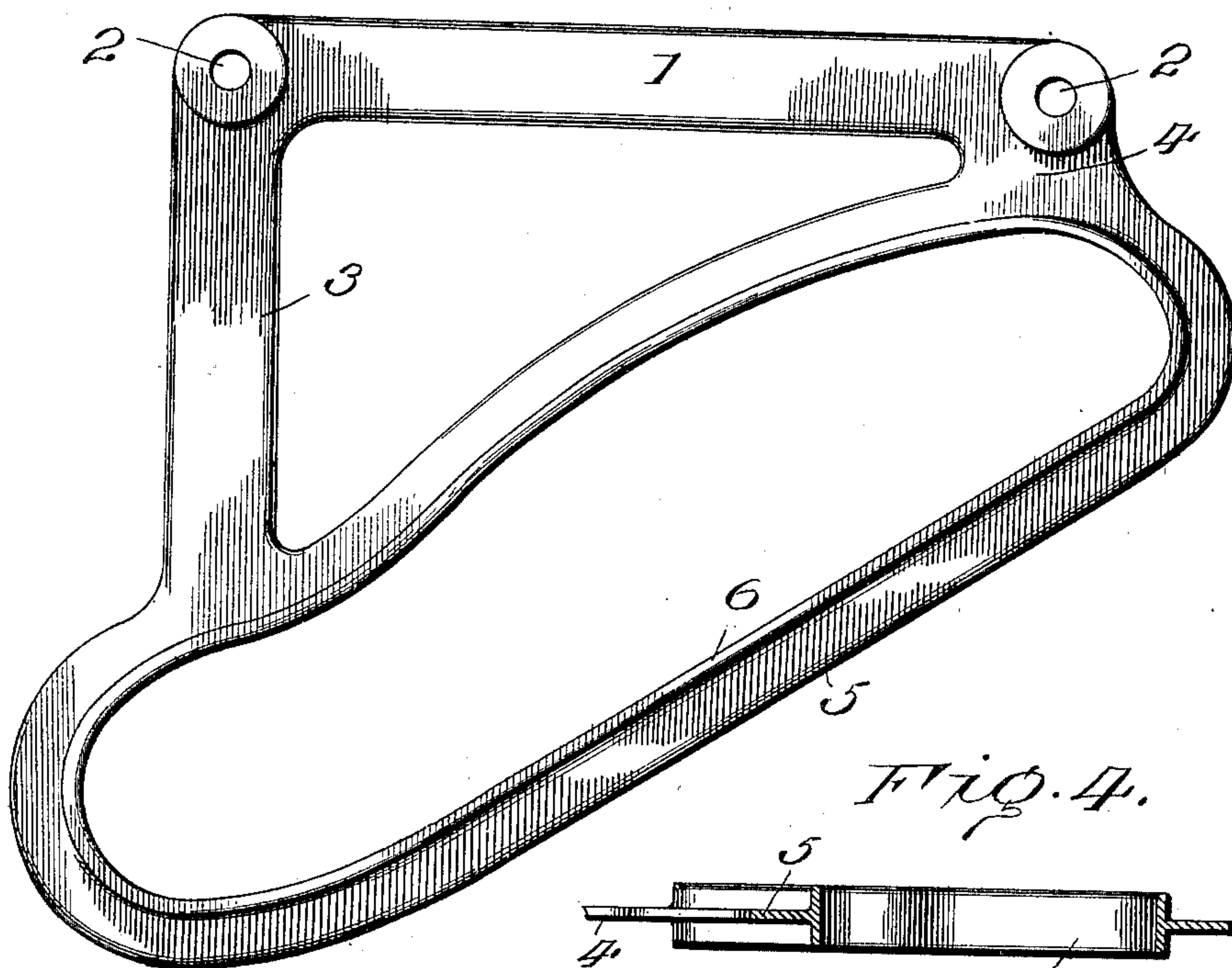


Fig. 4.

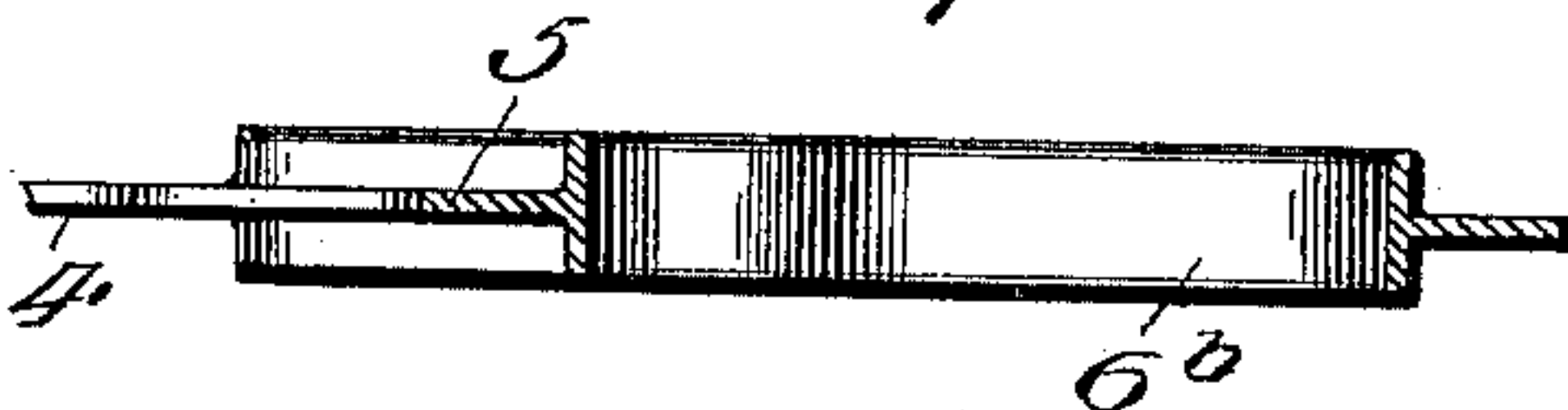


Fig. 2.

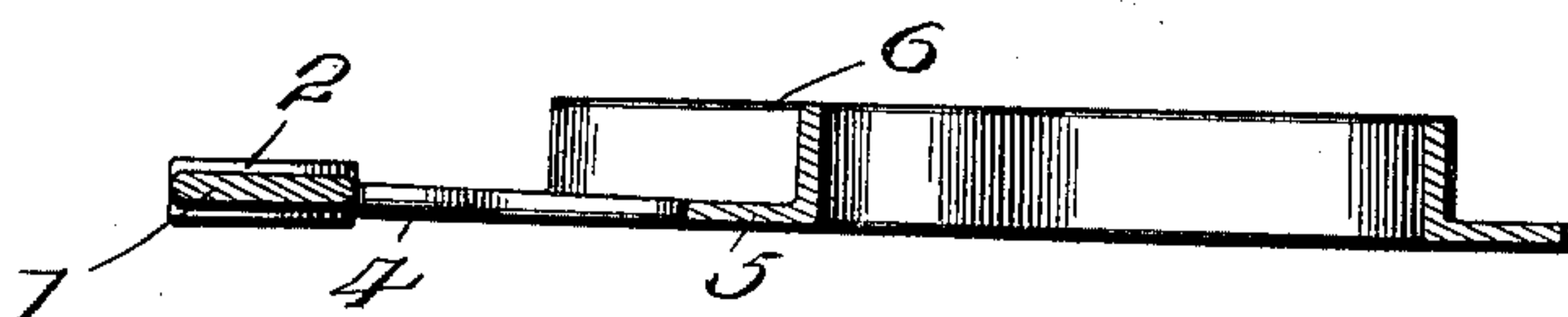
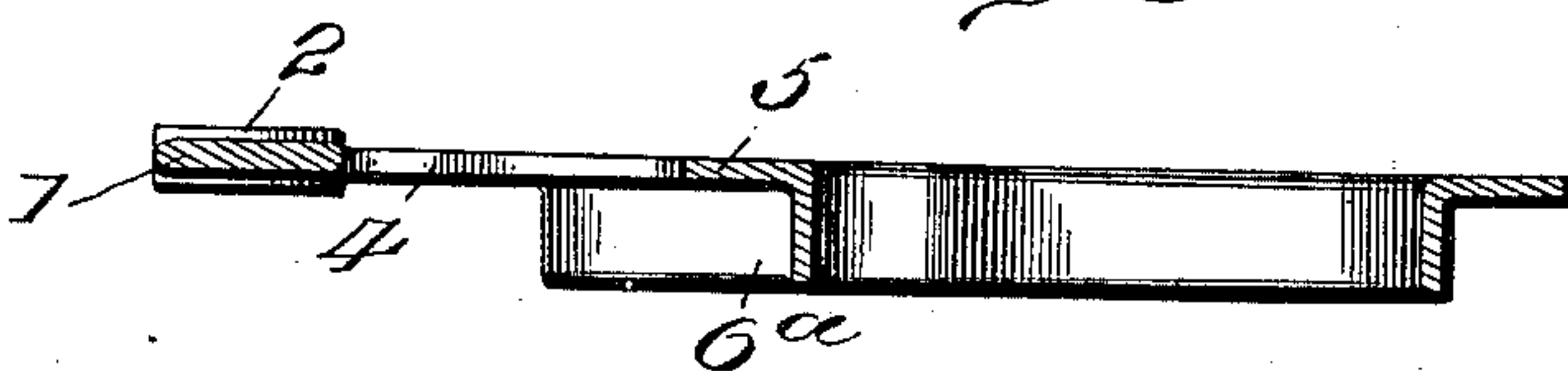


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

NAPOLEON DU BRUL, OF CINCINNATI, OHIO.

## GUIDE-PLATE FOR CIGAR-WRAPPER-CUTTING MACHINES.

SPECIFICATION forming part of Letters Patent No. 697,706, dated April 15, 1902.

Application filed June 4, 1901. Serial No. 63,133. (No 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, county of Hamilton, State of Ohio, have invented a new and useful Guide-Plate for Cigar-Wrapper-Cutting Machines, of which the following is a specification.

In the type of cigar-wrapper-cutting machines originated by Albert Du Brul, two embodiments of which are disclosed in his two Letters Patent of June 18, 1901, No. 676,677 and No. 676,813, respectively, a guide projects over the cutting-platen from a support outside the same and has a guiding or directing edge conforming to the outline of the wrapper to be cut and engaged by the cutting-tool in such a way as to determine the path in which the latter travels, and thus give shape to the wrapper that is cut out. The preferred embodiment of this type of cigar-wrapper-cutting machines is that disclosed in my Letters Patent No. 683,201, dated September 24, 1901, and comprises an unobstructed cutting-platen with a cutting-tool carrying a rotary cutting-disk mounted on a horizontal axle at the lower end of the tool's vertical axis and means on the tool for engaging the directing edge of the guide on two sides, so as to confine the tool to the guide and at a plurality of points on one side, so as to hold the axis of the cutting-disk at all times normal to the path in which it travels. In this last-named embodiment of the type of wrapper-cutting machines referred to it is obvious that a single machine may be adapted for cutting many different shapes of wrappers by simply applying to the machine a guide appropriate to the shape of work to be produced. The guide for this type of machine thus becomes a distinct article of manufacture, to be made up on order for any wrapper which it is desired to produce, and to be sold independently of the machine.

My present invention consists in a novel construction of guide for cigar-wrapper-cutting machines, which will be hereinafter fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a guide constructed in accordance with my invention. Figs. 2, 3, and 4 are vertical sections showing the

directing-flange extending, respectively, above the guide, below the guide, and both above and below the guide.

The guide comprises a back bar 1, having perforated bosses 2, by which the guide may be detachably secured to its support on the machine, arms 3 4, an approximately elliptical frame 5, within which the cutting-tool travels when the guide is in use, and a directing-flange 6, conforming in outline to the wrapper to be cut and projecting vertically from the inner edge of the frame 5.

It will be seen that the arm 4 is shorter than the arm 3, so that the major axis of the approximately elliptical frame 5 lies at an angle to the back bar 1, which is parallel to the front of the machine in use, thus cutting the wrapper in a convenient position for rolling, as described in my patent aforesaid. The position shown is suitable for what is termed a "left-hand leaf." If the guide were adapted for a right-hand leaf, the long and short arms would be reversed and the shape of the directing edge would be the counterpart of that shown in Fig. 1, or as if turned completely over on an axis running from front to rear of the machine.

According to Fig. 2 the flange 6 projects upwardly from the frame 5 and is designed for use in connection with a tool having a downwardly-opening bifurcation to straddle the directing edge.

According to Fig. 3 the flange 6<sup>a</sup> projects downwardly from the plane of the frame 5, this form being adapted for a tool having an upwardly-opening bifurcation to straddle the flange.

It is obvious that the guide could be still further modified by having two flanges projecting, respectively, upward and downward from the frame 5, as is shown in Fig. 4, and thus not only be adapted for either form of tool, but adapted to be reversed in position, so that the angular position of the guide would be suitable either for right-hand leaves or left-hand leaves, for which it is now customary to have two different machines.

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

1. As a new article of manufacture, a replaceable or interchangeable shaping-guide



for that type of cigar-wrapper-cutting machines employing a floating cutting-tool; said guide comprising an open frame corresponding to the outline of the wrapper to be cut, 5 formed with a vertically-extending guiding track or flange, integral supporting and attaching arms of different lengths extending rearwardly from one side of the frame so as to leave the front side of the frame free, and 10 connected at their rear ends by a bar so that the major axis of the frame lies at an angle to said bar; said bar being constructed for detachable connection with the machine and designed to be parallel to the front of the machine when so attached. 15

2. As a new article of manufacture, a shaping-guide for cigar-wrapper-cutting machines, employing a floating tool; the same comprising an open frame constructed of a 20 horizontal base-flange, integral attaching-arms extending outwardly from and in the plane of said base-flange, constructed for replaceable attachment to the machine without disturbing the working parts of the latter, and 25 having a flange conforming to a cigar-wrapper outline projecting vertically from the horizontal base-flange along the edge of the opening, out of the plane of the base-flange and providing a track for engagement with the 30 tool and direction of the latter over the projecting arms.

3. As a new article of manufacture, a replaceable or interchangeable shaping-guide for cigar-wrapper-cutting machines of the

type employing a floating tool; the same comprising an open frame formed along the inner 35 edge of the opening with a thin vertical tool-receiving track or flange and around the outer side with an outwardly-extending stiffening base or flange, and arms extending rearwardly 40 from said flange or base on one side only of said frame and provided at their rear ends with means for detachably securing them to the type of machine specified; said arms being connected at their rear ends by a cross- 45 bar which lies parallel to the front of the machine when the guide is connected for use, and the arms being of different lengths whereby they hold the shaping-guide in a position with its major axis at an angle to the front of 50 the machine.

4. A cutter-guide plate for wrapper-cutters, comprising a frame, and means upon opposite faces thereof for guiding a cutting-tool. 55

5. A cutter-guide plate for wrapper-cutters, comprising a frame, and angularly-disposed tracks upon opposite faces thereof.

6. A cutter-guide plate for wrapper-cutters, comprising a frame, means upon opposite faces thereof for guiding a cutting-tool, 60 and a long and a short supporting-arm.

The foregoing specification signed this 18th day of May, 1901.

NAPOLEON DU BRUL.

In presence of—

EDWIN S. CLARKSON,  
HERVEY S. KNIGHT.