

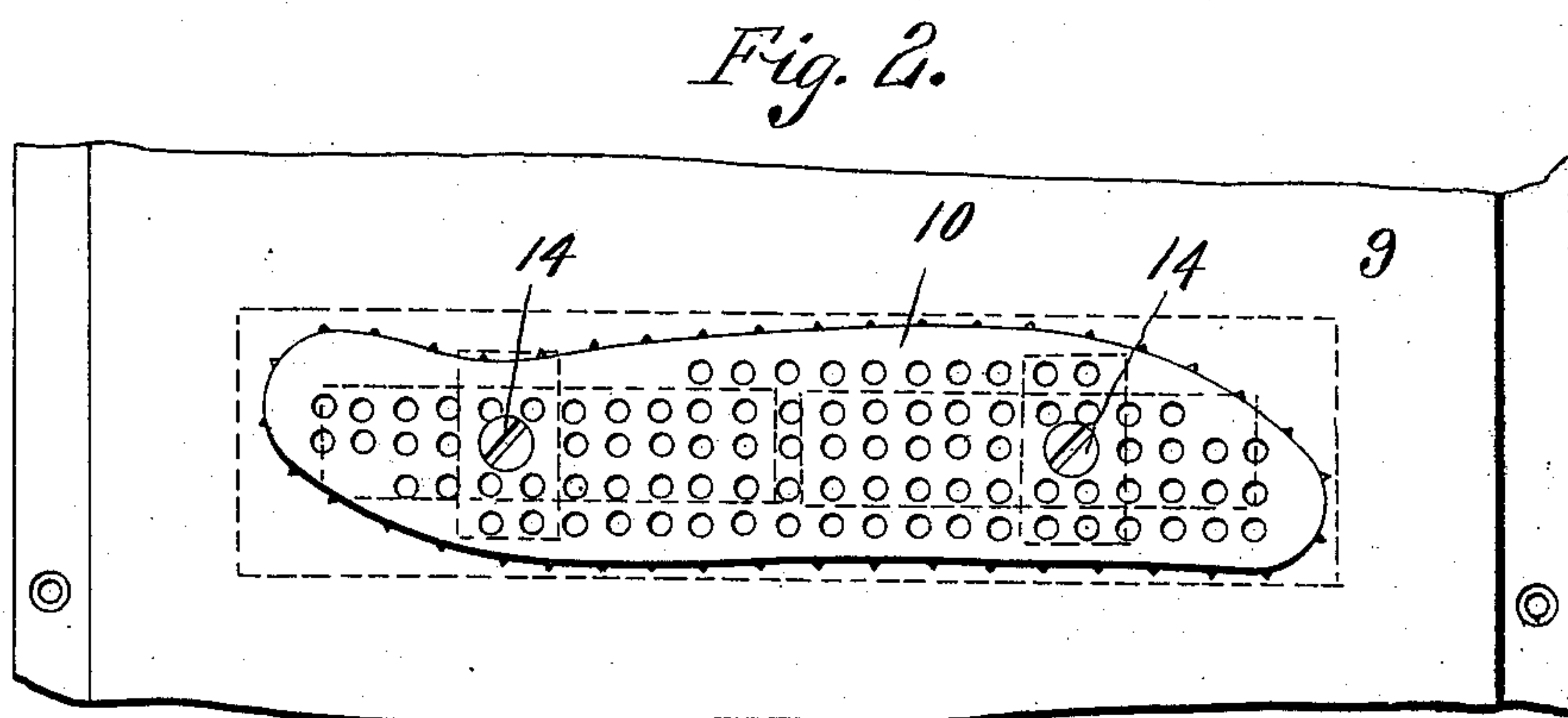
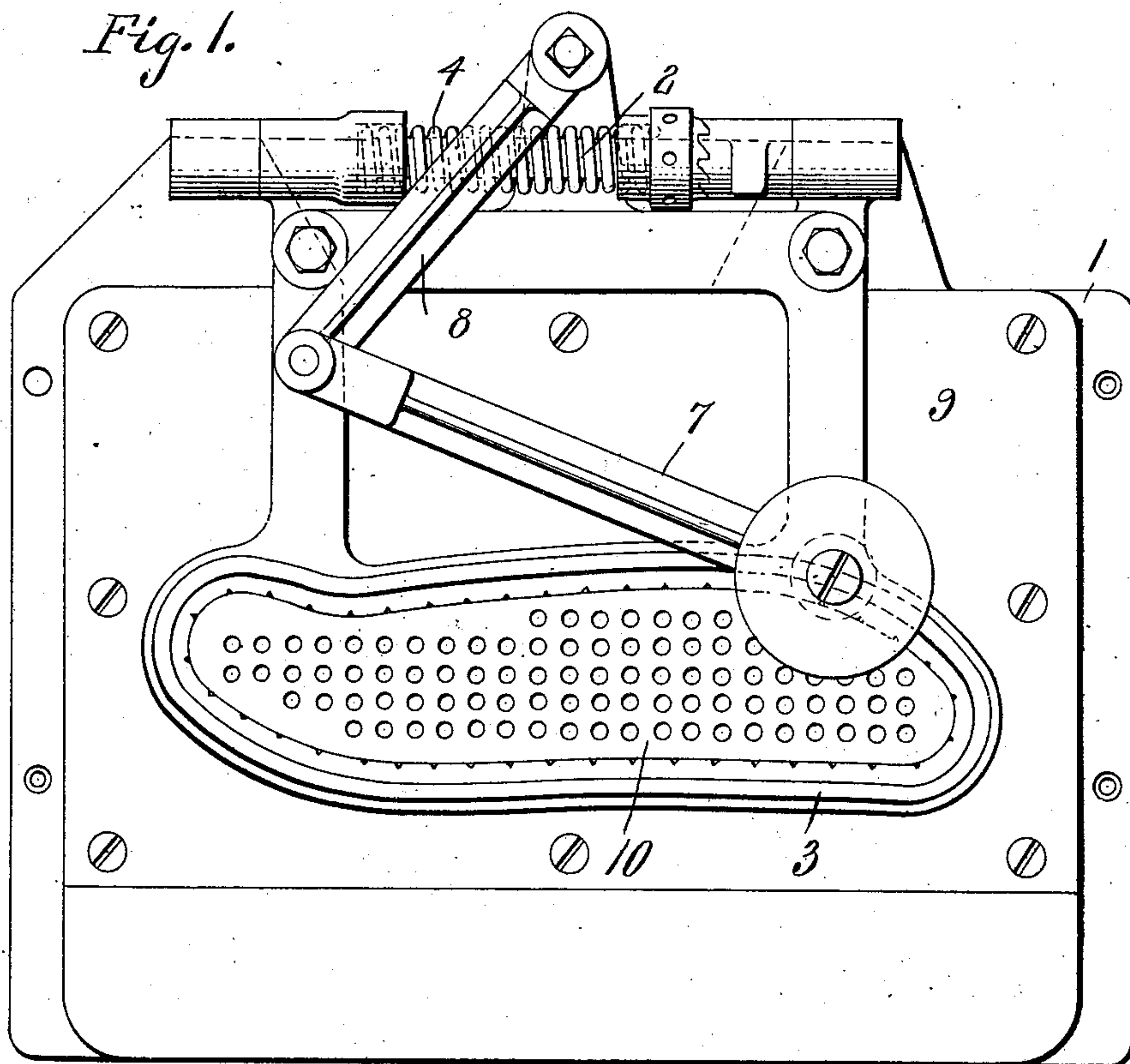
No. 889,772.

PATENTED JUNE 2, 1908.

A. DU BRUL.
CIGAR WRAPPER CUTTING MACHINE.

APPLICATION FILED APR. 27, 1907.

3 SHEETS—SHEET 1.



Witnesses
Jos. H. Collins.
H. H. Simms

Inventor
Albert Du Brul
by *Wright Bros*
Attorneys

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Fig. 3.

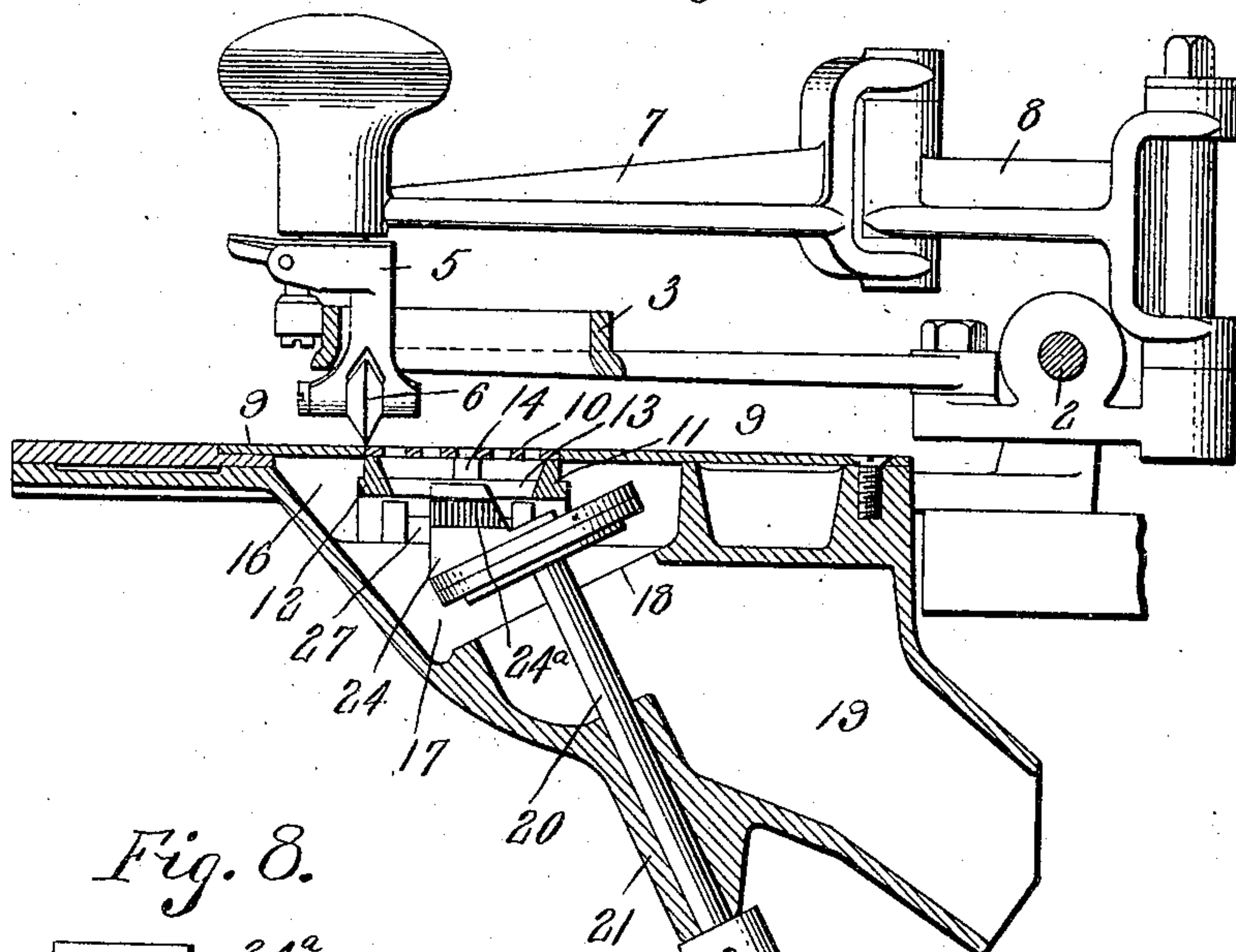


Fig. 8.

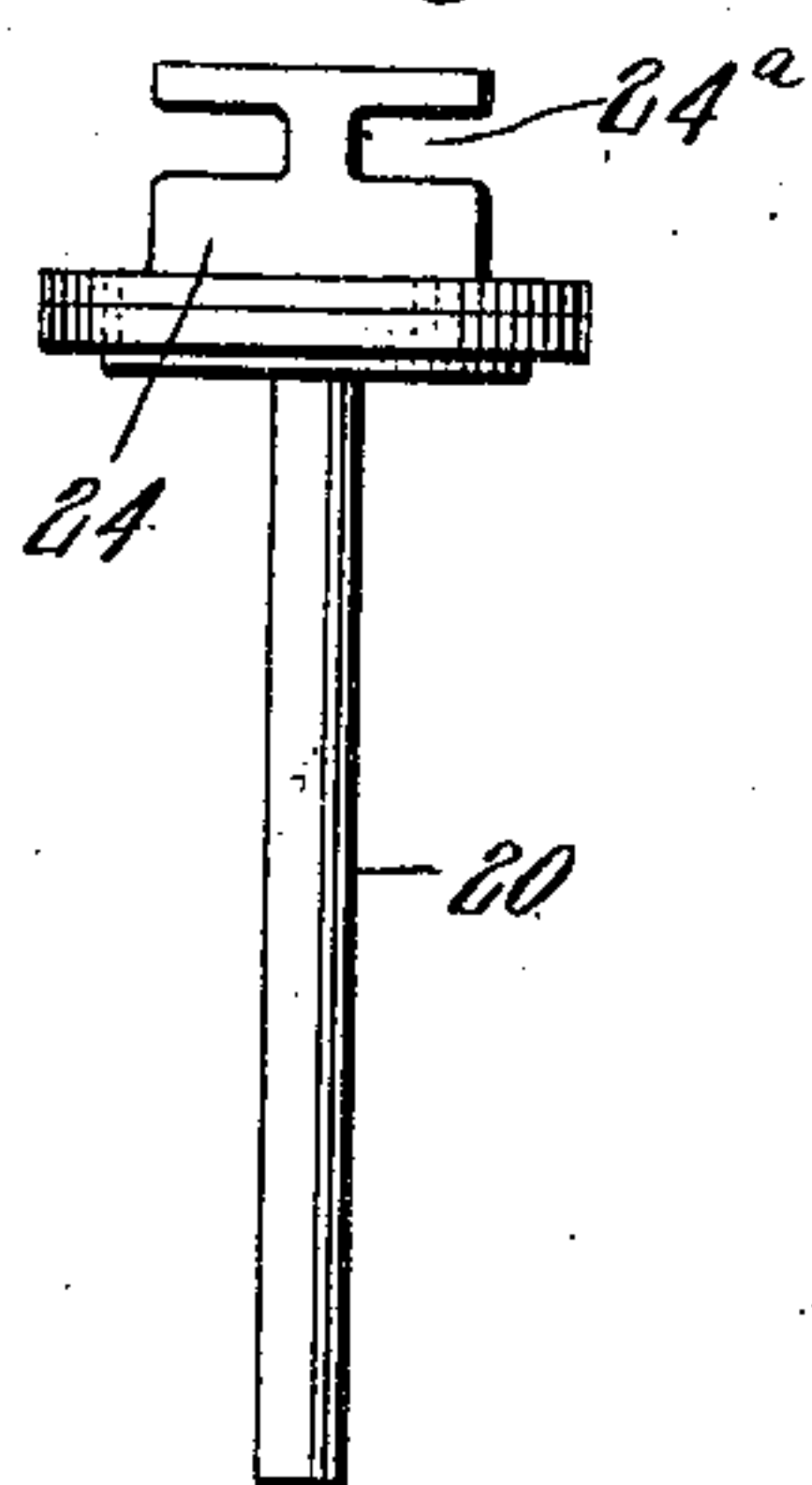
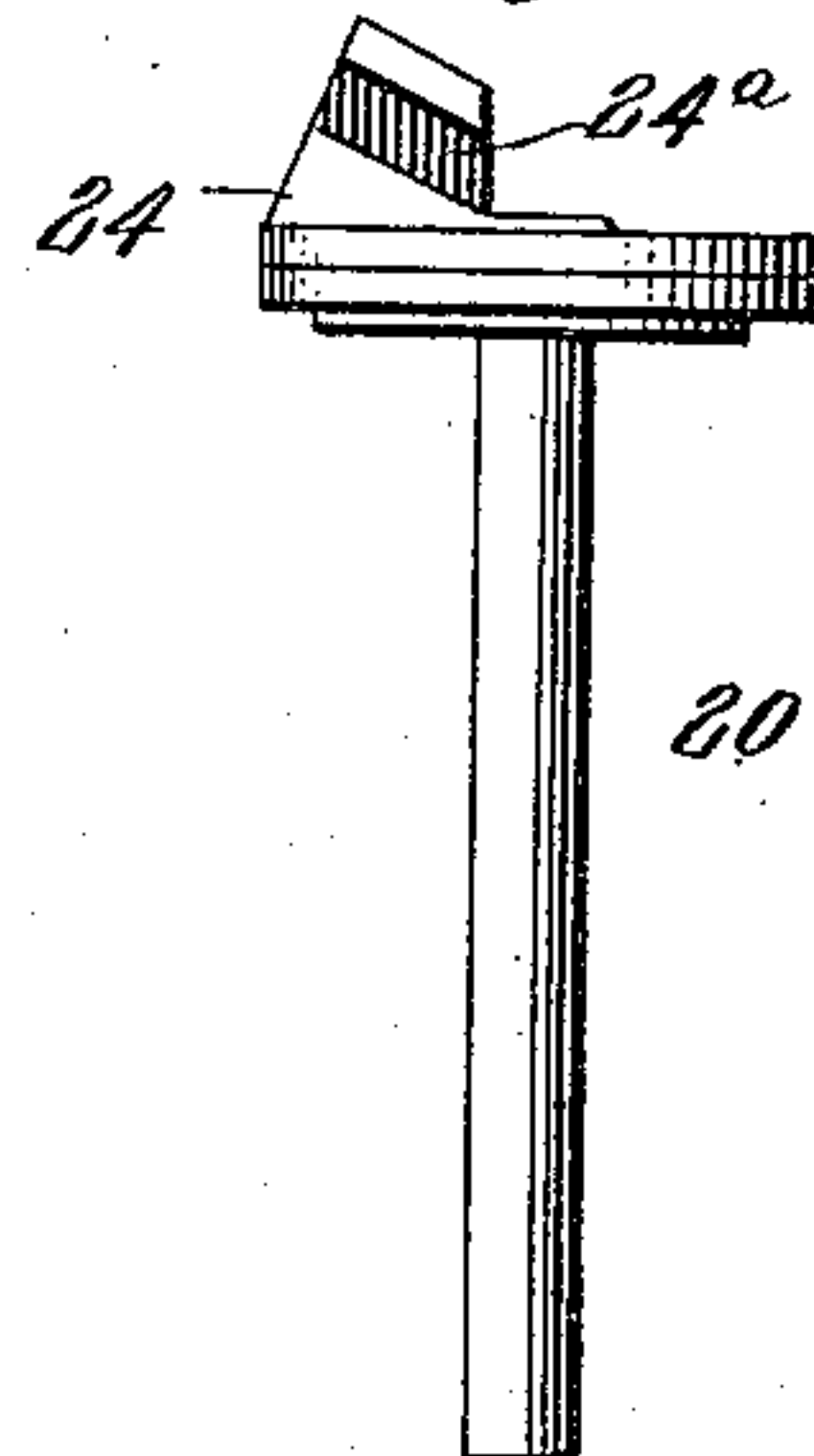


Fig. 9.



Witnesses.
Jos. F. Collins.
A. H. Simons

Inventor:
Albert Du Brul
By Knight Bros
Attorneys.

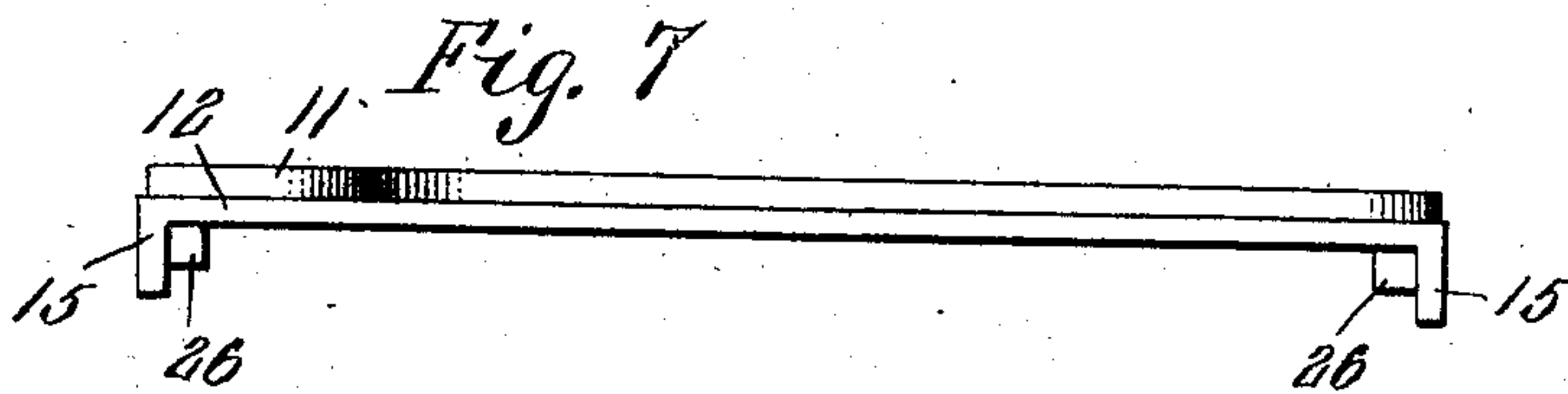
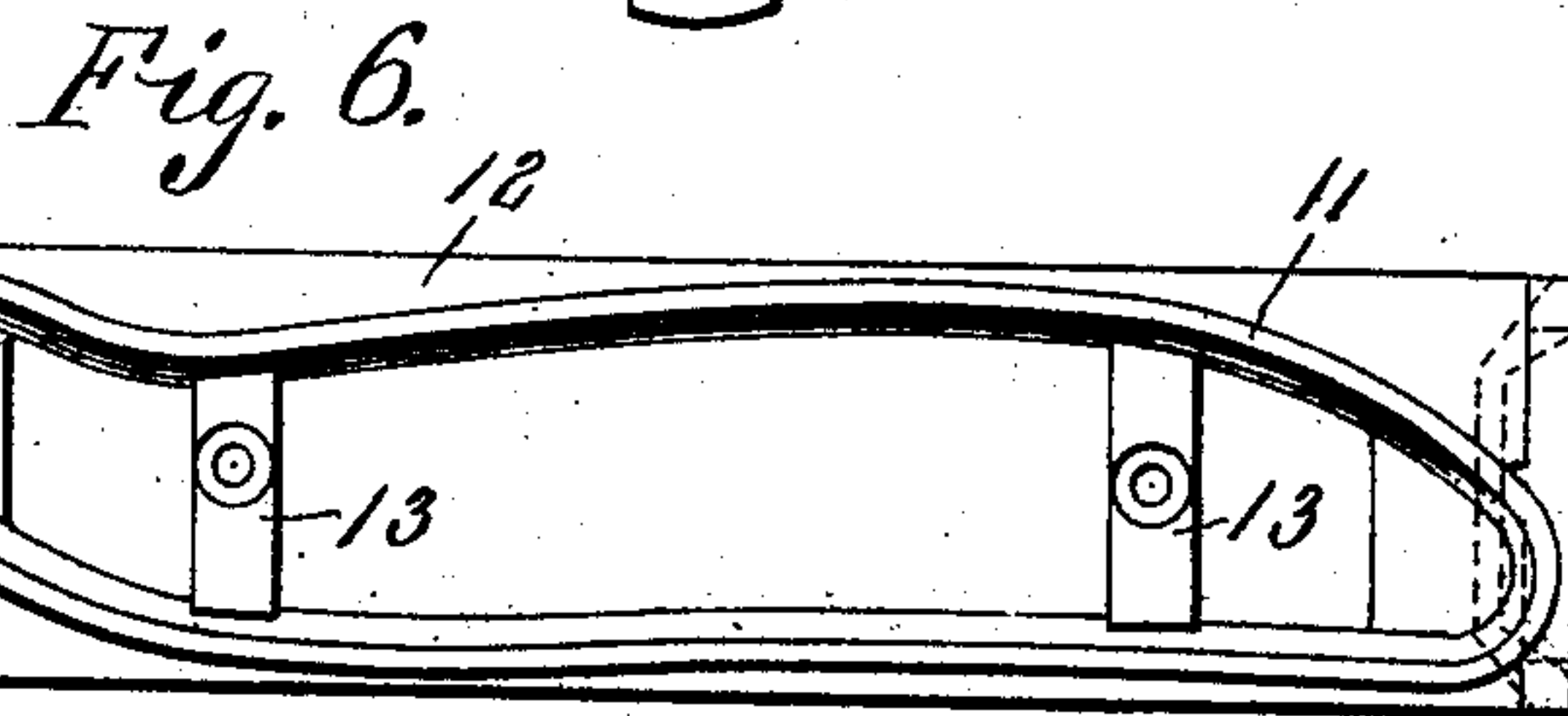
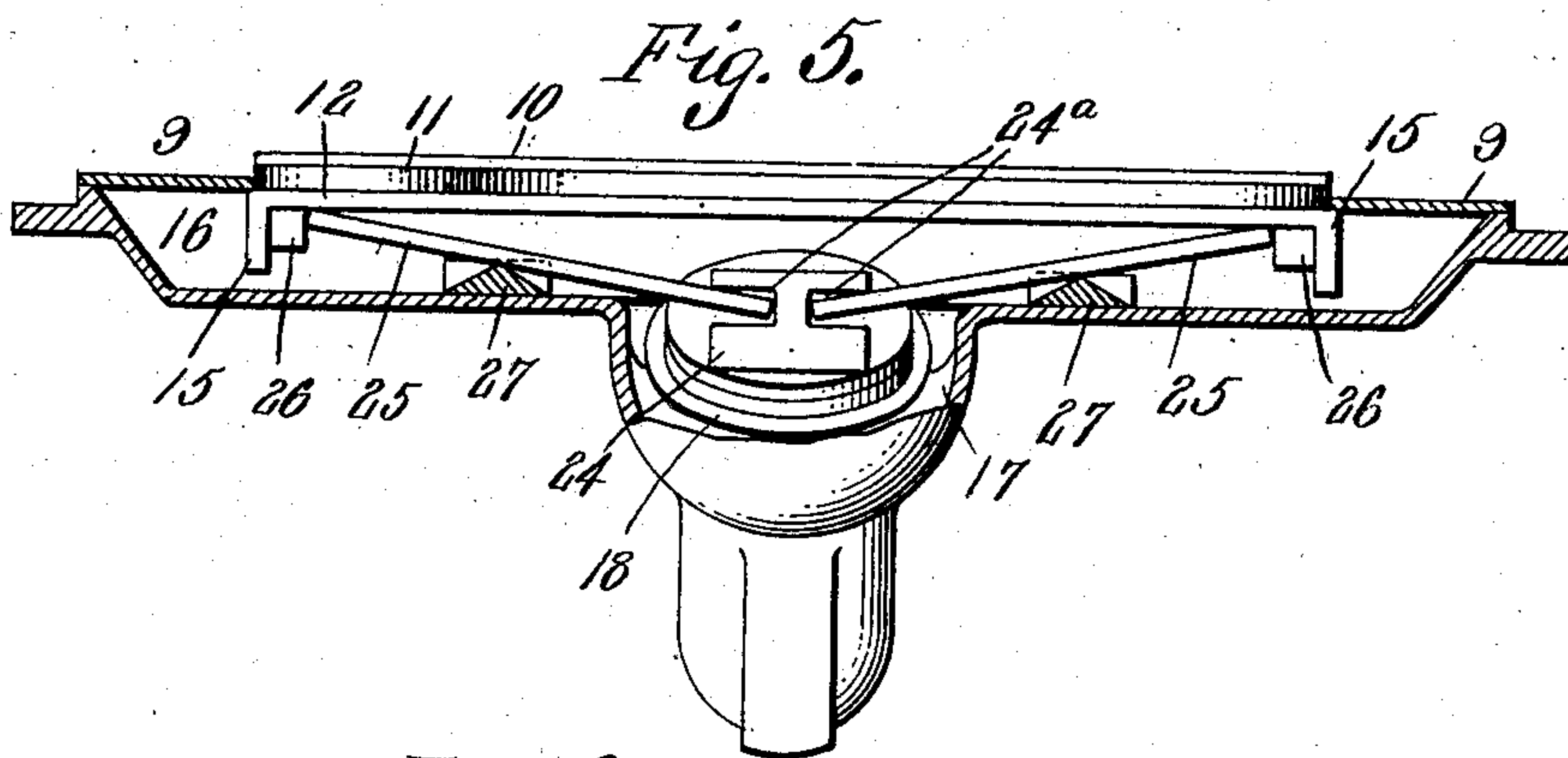
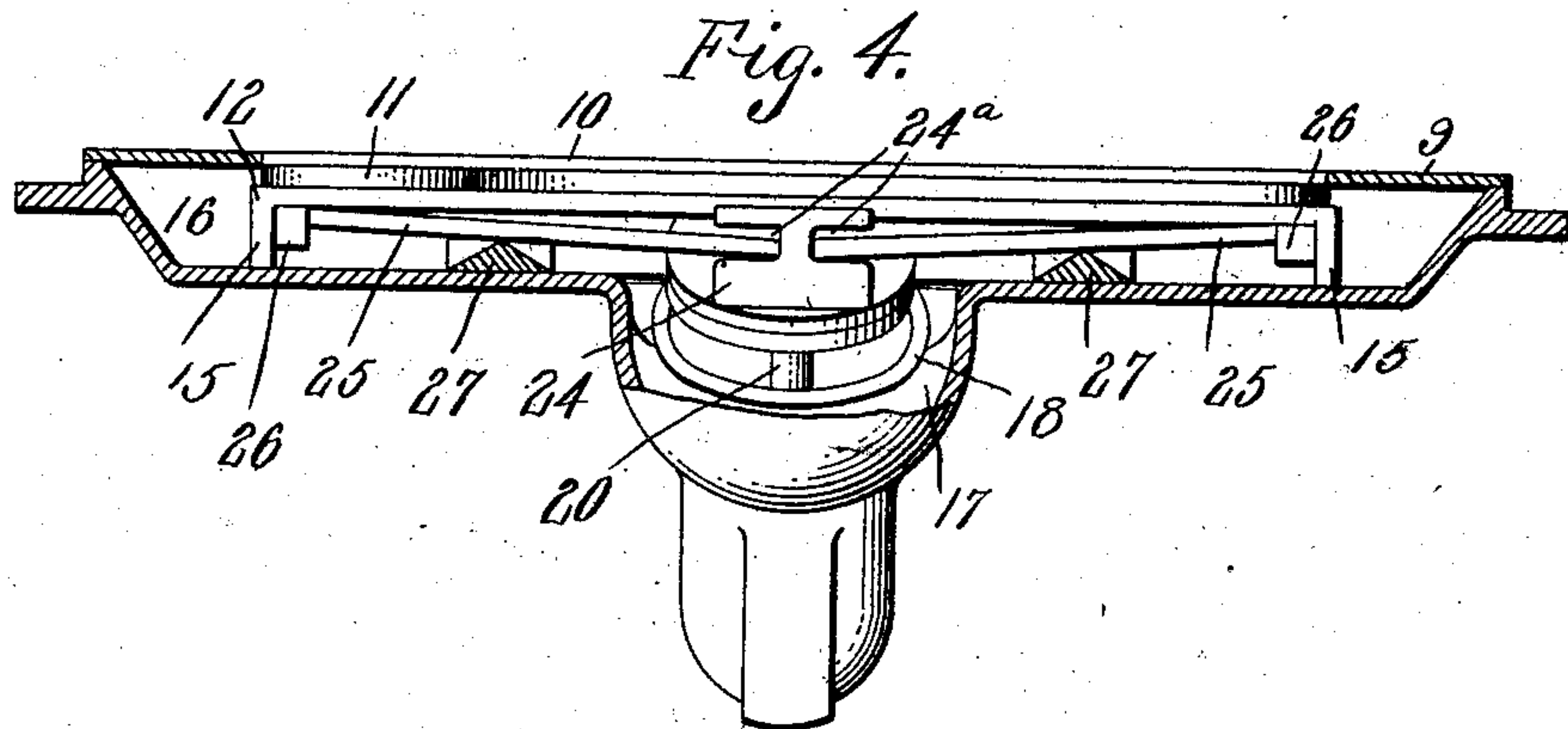
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3 SHEETS—SHEET 3.



Witnesses.
Jos. H. Collins.
H. H. Simms

Inventor.
Albert Du Brul
by *Knight Bros*
Attorneys.

UNITED STATES PATENT OFFICE.

ALBERT DU BRUL, OF CINCINNATI, OHIO, ASSIGNOR TO THE MILLER, DU BRUL AND PETERS MANUFACTURING COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

CIGAR-WRAPPER-CUTTING MACHINE.

No. 889,772.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed April 27, 1907. Serial No. 370,585.

To all whom it may concern:

Be it known that I, ALBERT DU BRUL, a citizen of the United States, and resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Cigar-Wrapper-Cutting Machines, of which the following is a specification.

This invention relates to cigar wrapper cutting machines.

Sales of wrapper cutting machines employing a rotary knife and a dieless table or platen have in some instances been lost owing to the fact that the operators have been accustomed to feel the die on the table in stretching the wrapper preparatory to cutting it. Another disadvantage of the dieless table is that the sight is required to place the wrapper in proper position below the cutter and to do this some operators consume more time than to place the wrapper on a die on the table, for the reason that with the latter, the operator employs mostly his sense of touch.

It is an object of my invention to overcome both of the above objections, and for this purpose I employ a plate, preferably having the shape of the wrapper to be cut and movable to and from the plane of the table.

Other and further objects of my invention will appear in the following description and will be more particularly pointed out in the appended claims.

In the drawings—Figure 1 is a plan view of a wrapper cutting machine employing my invention; Fig. 2 is a plan view of a portion of the table; Fig. 3 is a vertical section through the upper portion of the machine; Fig. 4 is a sectional view of the platen showing the cutting plate in lowered position and the valve open; Fig. 5 is a sectional view of the platen showing the cutting plate in elevated position and the valve closed; Fig. 6 is a plan view of the lower portion of the cutting plate's supporting frame; Fig. 7 is a side elevation of the supporting frame; Fig. 8 is a front view of the valve; and Fig. 9 is a side view of the valve.

Referring more particularly to the drawings, 1 indicates the table on the rear of which is secured a shaft 2 on which is journaled a cutter guide 3 which is normally held in an elevated position by a coil spring 4. Traveling on the cutter guide is the rotary cutter holder 5 carrying a cutter 6. The

cutter holder is held to the guide in any suitable manner and is connected to the rear of the cutter guide by means of a pair of links 7 and 8. The particular form and construction of the cutter, its holder, and its guide form no part of the present invention and for this reason are not claimed in this application.

The table before mentioned is provided with a platen 9, that portion 10, below the cutter guide being formed separately from the other part and provided with openings. This portion 10 is of the same configuration as the wrapper to be cut and rests upon a like shaped flange 11 projecting from the upper face of a rectangular shaped support 12. Support 12 is open within the flange 11 except for two transverse members 13 which provide anchorage for bolts 14 that serve to hold the perforate platen portion 10 to the said support 12. The ends of supports 12 are turned downwardly as at 15 forming legs which rest upon the bottom of the suction chamber or box 16 located below the platen 9.

By means of the flange 11 of support 12, which forms a telescopic joint with the platen 9, the perforated cutting plate 10 is adapted to be moved to and from the plane of the platen without interfering with the suction in said suction chamber. Means are provided to elevate the support so that the platen portion 10 may project above the platen proper. After the portion 10 is elevated a certain distance those portions of the support 12 that project beyond the periphery of the portion 10 or guide, act as stops to prevent the further elevation of the cutting plate.

Means operating cutting plate.—Arranged within a depression 17 in the suction box is a movable valve which moves to and from a seat 18 and closes the suction pipe 19. This valve is secured to a valve stem 20 which works through a bearing 21 in the suction pipe 19 and is connected by a link 22 or other suitable means with a treadle 23 mounted in any suitable manner upon the machine. When the valve is closed, a tobacco leaf on the platen is not acted upon by suction and during this time a leaf may be placed on or removed from the platen. On the other hand, when the valve is open, suction acts on any leaf on the platen holding it against movement, consequently during this time the cutting of the leaf takes place. As

the closing of the valve always precedes the placing of a leaf on the platen, I make use of this closing movement to shift the platen portion 10. For this purpose, I provide an upward extension 24 upon the upper face of the valve. This extension is provided on opposite sides with horizontal slots or recesses 24^a in which loosely work one end of each of a pair of levers 25 extending in opposite directions from the valve. The opposite ends of the levers 25 abut the shoulders 26 near the ends of the support 12. Located in the suction box below the levers and between their ends is a pair of knife edge fulcrums 27, one for each lever 25, and upon which the levers are supported.

It is apparent that when the valve is closed the levers 25 will raise the support 12 and consequently the perforated platen portion 10 which will act as a guide by which the operator may properly place the leaf below the cutter. Upon the opening of the valve, the cutting plate will drop to the plane of the platen, suction beginning to act on the leaf immediately the valve begins to open.

It will thus be seen that I provide a cutting plate movable to and above the plane of the platen in combination with a rotary cutter. Further that I provide means for operating the plate, which means is controlled by the suction controlling valve.

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

1. In a cigar wrapper cutting machine, the combination with a rotary cutter and a platen of a suction chamber below the platen, and a flanged cutting plate movable telescopically in one wall of said suction chamber.

2. In a cigar wrapper cutting machine, the combination with a suction chamber of a platen forming one wall thereof, and a cutting plate provided with flanges whereby it is adapted to be moved telescopically within said platen.

3. In a cigar wrapper cutting machine, the combination with a suction chamber and a rotary cutter mounted above the suction chamber, of a platen forming one wall of said chamber, a flanged cutting plate telescopically movable relative to said platen, and means for moving said cutting plate toward and from said rotary cutter.

4. In a cigar wrapper cutting machine, the combination with a suction chamber, of a platen forming one wall thereof, and a cutting plate mounted in such manner as to be movable to and from the plane of said platen without breaking the suction existing within said suction chamber.

5. In a cigar wrapper cutting machine, the combination with a platen, of a plate mov-

able to and from the plane of the platen, a vertically movable member, and a pair of levers engaged by and extending in opposite directions from the vertically movable member, fulcrumed intermediate their ends, and connected with the plate to move the latter.

6. In a cigar wrapper cutting machine, the combination with a suction chamber and a movable cutting plate forming a part of one wall thereof, of a suction valve, and means for controlling said cutting plate by means of said valve.

7. In a cigar wrapper cutting machine, the combination with a suction chamber and a platen forming one wall thereof, of a cutting plate movable to and from the plane of said platen, a suction valve connected with said cutting plate, and means whereby said valve and cutting plate may be actuated simultaneously.

8. In a cigar wrapper cutting machine, the combination with the suction chamber, of a platen forming one wall of the suction chamber, a perforated cutting plate movable to and from the plane of the platen, and a suction valve in connection with the suction chamber, whereby the movement of the cutting plate is controlled.

9. In combination with a cigar wrapper cutting machine, a suction chamber comprising a platen forming the upper wall thereof, and a perforated cutting plate movable to and from the plane of said platen.

10. In a cigar wrapper cutting machine, the combination with a platen, of a cutting plate movable to and from the plane of the platen, a vertically movable suction valve, and levers fulcrumed intermediate their ends and connecting the plate and the valve.

11. In a cigar wrapper cutting machine, the combination with a platen, and a suction box arranged below the same, of a perforated plate having the configuration of the wrapper, to be cut, a support normally resting upon the bottom of the suction box and provided with an upwardly extending flange on which the plate rests, and means for elevating the support.

12. In a cigar wrapper cutting machine, the combination with a platen, of a cutting plate movable to and from the plane of the platen, a suction controlling valve having an upward extension provided with recesses on opposite sides, and levers seated in the recesses and connected to the plate.

The foregoing specification signed at Cincinnati, Ohio, this twenty seventh day of October, 1906.

ALBERT DU BRUL.

In presence of two witnesses—

W. M. BEINHART,
H. WHYRICH.