

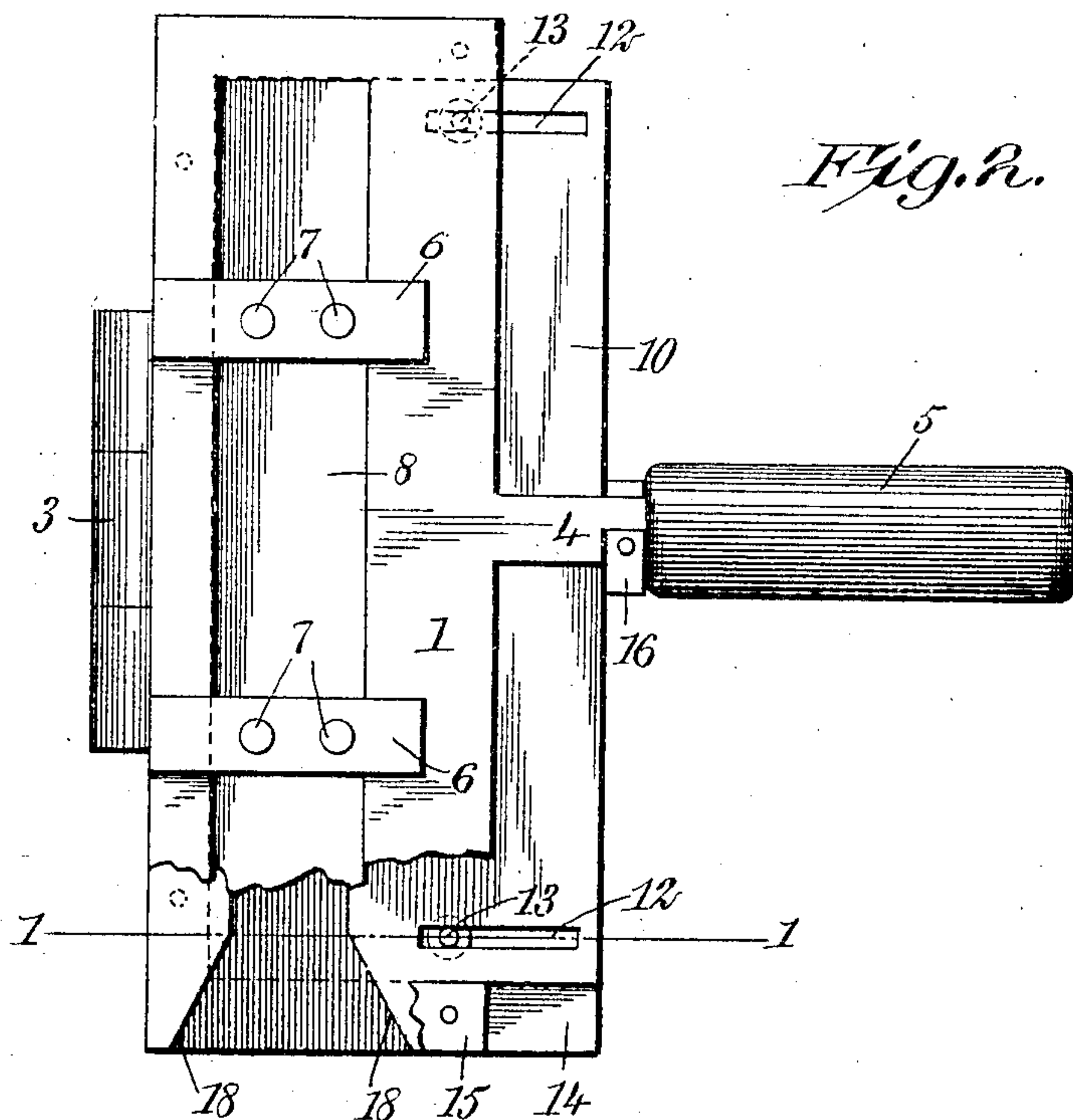
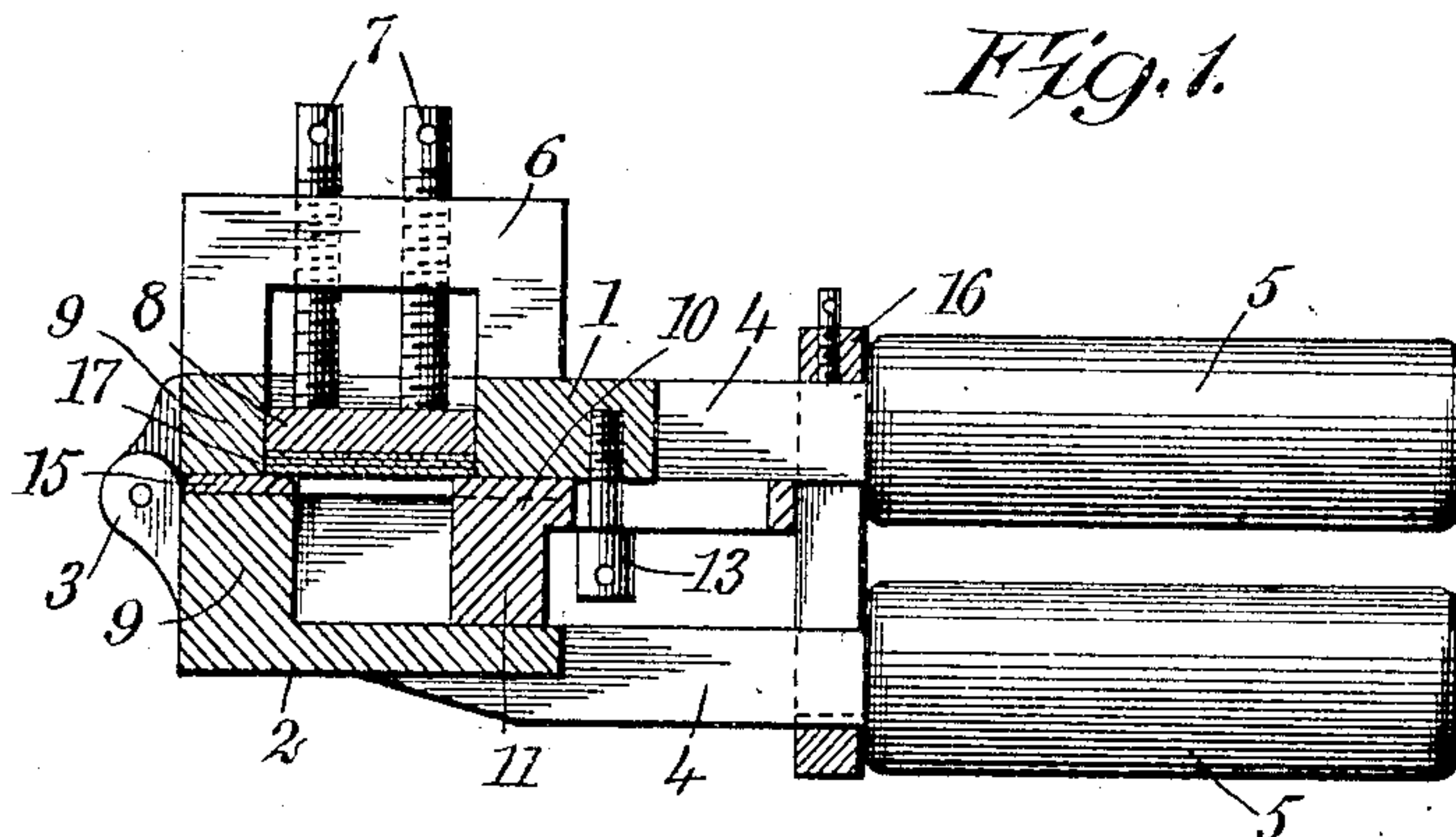
No. 882,461.

PATENTED MAR. 17, 1908.

H. GODDARD.
CASTING TOOL

APPLICATION FILED MAY 7, 1907.

2 SHEETS—SHEET 1.



WITNESSES

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INVENTOR

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2 SHEETS—SHEET 2.

Fig. 3.

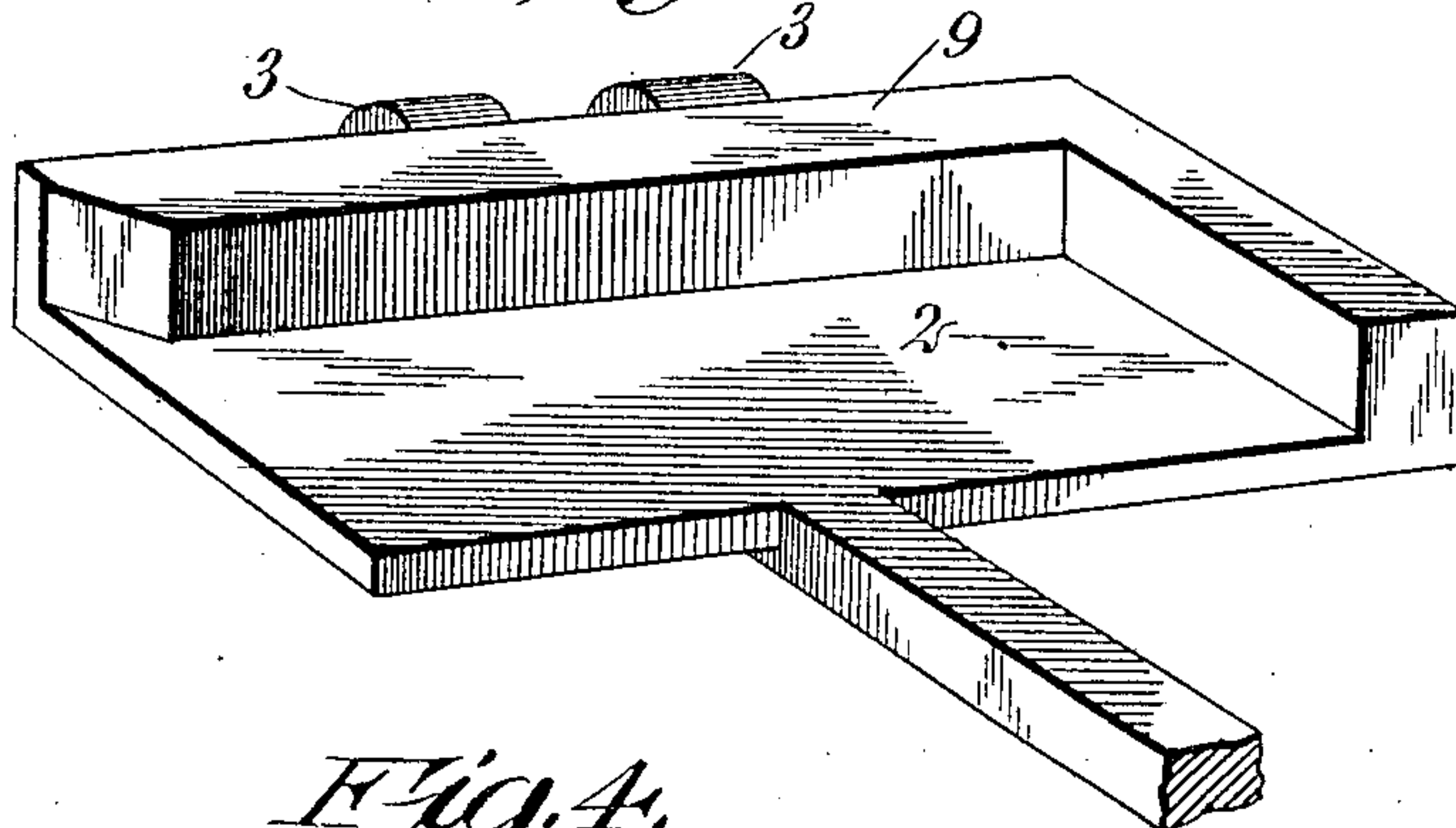


Fig. 4.

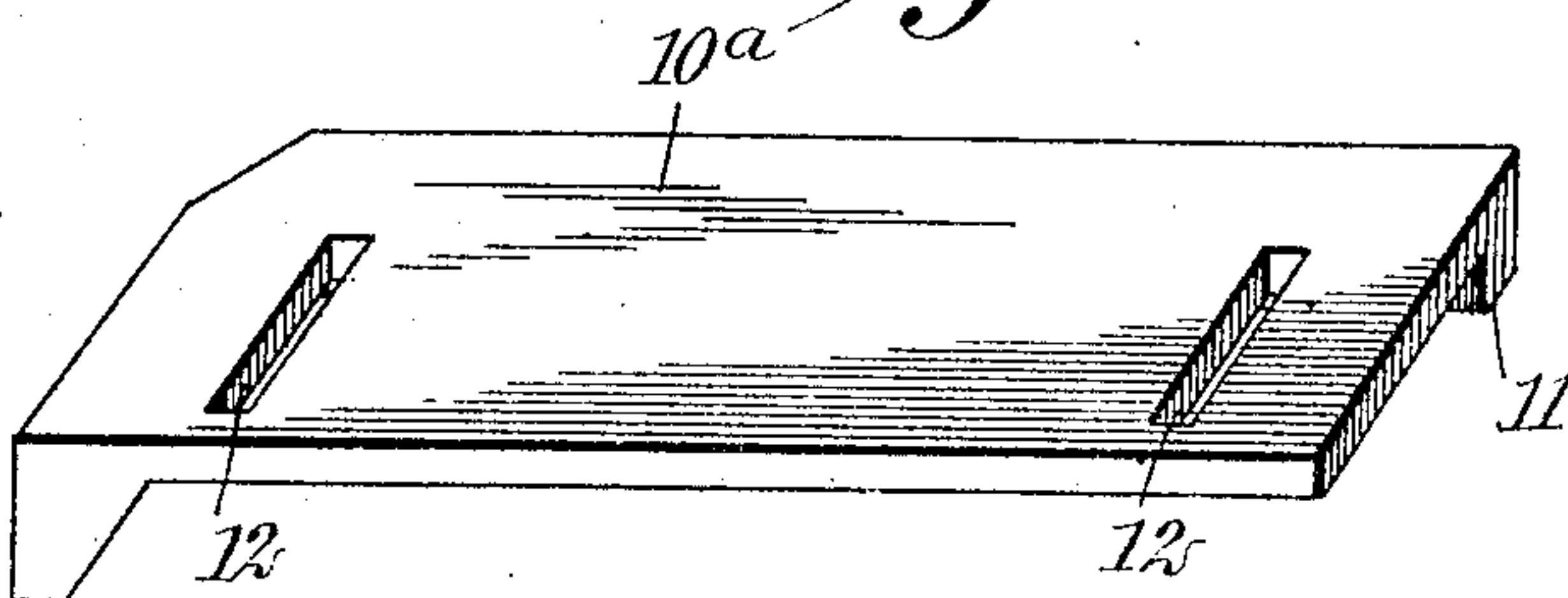


Fig. 5.

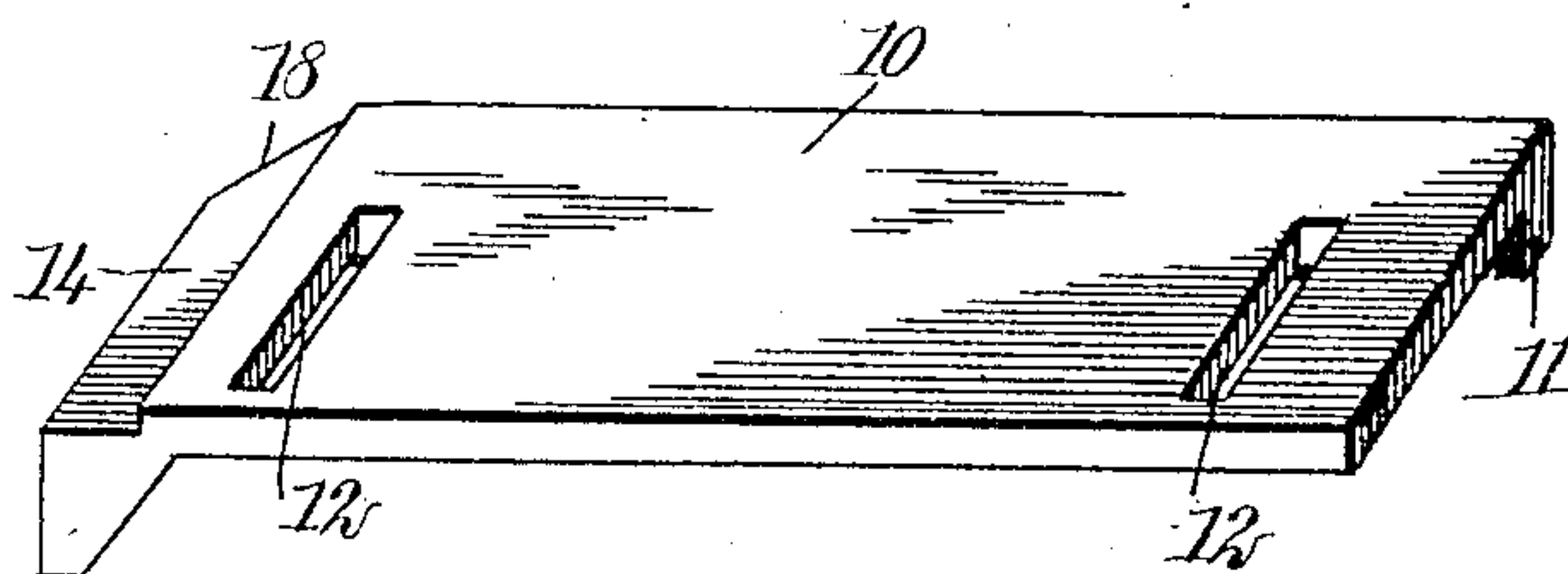


Fig. 6.

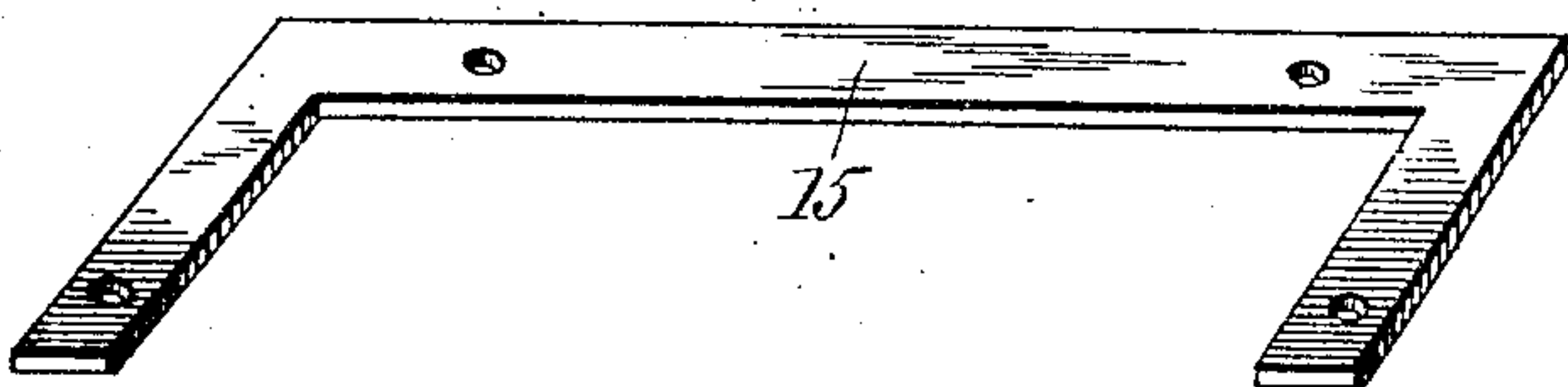
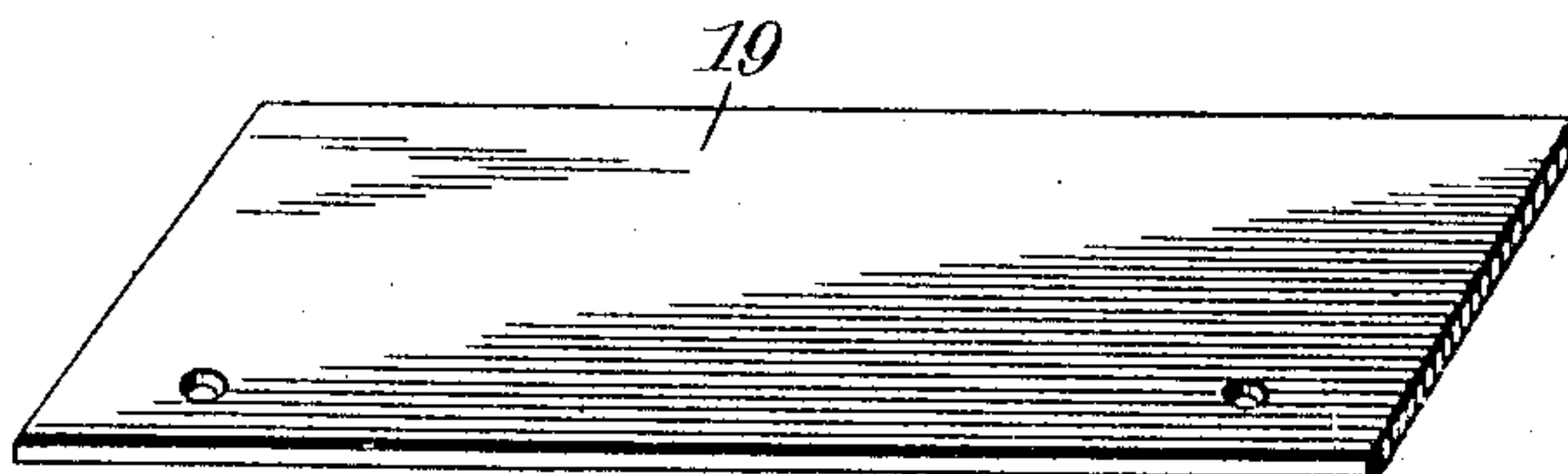


Fig. 7.



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UNITED STATES PATENT OFFICE.

HOWARD GODDARD, OF CANTON, OHIO.

CASTING-TOOL.

No. 882,461.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed May 7, 1907. Serial No. 372,382.

To all whom it may concern:

Be it known that I, HOWARD GODDARD, a citizen of the United States, and a resident of Canton, in the county of Stark and State of Ohio, have invented a new and Improved Casting-Tool, of which the following is a full, clear, and exact description.

This invention is an improvement in casting tools more especially constructed for use in printing offices for molding borders, rules, dashes, signatures, addresses, etc., and also by a slight interchange of parts being adapted to form leads, slugs and metal furniture.

The usefulness of the tool for casting other articles than those enumerated will be apparent to those skilled in the art to which the invention appertains.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a section through the preferred form of my improved casting tool, said section being taken substantially on the line 1—1 of Fig. 2; Fig. 2 is a plan of the tool partly broken away to more clearly show the construction underneath; Fig. 3 is a perspective view of the bottom mold section of the tool; Fig. 4 is a perspective view of a laterally movable side of the mold section shown in Fig. 3; Fig. 5 is a perspective view of a slightly modified form of side which is substituted for the part shown in Fig. 4 when casting borders, rules, signatures, etc.; Fig. 6 is a perspective view of the filling strip which is used in connection with the movable side shown in Fig. 5; and Fig. 7 is a perspective view of a plate which supplants or is used in connection with the filling strip in Fig. 6 when the movable side shown in Fig. 4 is employed.

My improved casting tool as preferably constructed, comprises two mold sections 1 and 2, respectively, of extended width, which are provided with lugs 3 on their rear faces serving in connection with a central pivot pin, to hingedly connect them together. At the front of the movable sections each is provided with a shank 4 to which is affixed a handle 5 forming a convenient means to swing the sections to and from each other.

The top mold section 1 is constructed with an elongated rectangular opening substantially centrally arranged and conforming to the shape of the section, said opening being

bridged by keepers 6 located at opposite sides of the longitudinal center of the tool, each of said keepers being provided with vertically movable adjusting screws 7 which are adapted to press upon the top face of a platen 8 fitting within and movably mounted in the opening formed in the mold section 1.

The bottom section 2 is constructed with a flange 9 on its top face which incloses the rear and one side of the mold. The opposite side of the mold is inclosed when making borders, rules, signatures, etc. by a laterally adjustable side or member 10 having a flange 11 on its under face arranged in reverse order to the flange 9, the adjustment of the member 10 being made possible by constructing it with slots 12, which receive bolts 13 threaded within the section 1. By this construction it is obvious that the part 10 may be moved to bring the opposed portions of the flanges 9 and 11 any required distance apart when the mold sections are brought together and the member 10 secured in this position. As shown in Fig. 5, the top face of the adjustable side or member 10 is provided with a rabbeted edge 14 directly over the side portion of the flange 11. Within this rabbeted edge when the member 10 is in use, is seated and secured one side of a filling strip 15 shown in Fig. 6, the remaining portion of said strip conforming to and resting on the flange 9 of the lower mold section 2.

In the use of my invention as just described and as shown assembled in Figs. 1 and 2, when desired to form borders, rules, dashes, signatures, etc., a rule, border or the like which is to be formed is placed between the flanges 9 and 11 and the movable member pressed tightly against it, after which the bolts 13 are tightened. A clamp 16 is then placed over the shanks of the handles 5 and secured, thus preventing any pivotal movement of the mold sections to and from each other. The platen 8 should now be removed by loosening the screws 7 and a piece of prepared matrix paper, preferably like that used in stereotype machines placed over the protruding upper face of the line, border, etc., clamped in the lower mold section, one or more layers of felt 17 being placed on top of the matrix paper and the platen 8 again being placed in position. By now tightening the screws 7 an impression of the article which is to be cast is obtained, this impression being retained by heating

the tool until the matrix paper is substantially dry. The article clamped is then removed from the tool after the clamp 16 is displaced and the bolts 13 loosened. This being accomplished, the tool is again closed and the metal poured between the flanges 9 and 11. These flanges, as will be noted from Fig. 2, are constructed with beveled portions 18 at the open end of the tool, providing said end with a flaring mouth whereby the molten metal may be easily introduced.

When the tool is to be used for the forming of slugs, leads and metal furniture, the laterally movable side 10, is removed and a movable side or member 10^a and a plate 19, shown respectively in Figs. 4 and 7 are substituted to take the place thereof. This movable side 10^a is in all respects like the member 10 which it replaces except that it is constructed of a height equal to the height of the rabbeted portion 14 of said member. This permits the plate 19, when seated on the flange 9 of the lower mold section, to rest flat on the top face of the movable side 10^a and close the top of the space between the flanges 9 and 10 when the sections of the mold are brought together. After the parts 10^a and 19 have been assembled with the mold section, the former is adjusted the required distance from the flange 9 and secured in this position, when the tool is in readiness for forming slugs or furniture by the introduction of the metal in the manner hereinbefore outlined.

Various changes in the construction from that shown and described may obviously be made within the scope of the annexed claims.

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

1. In a casting tool, the combination of two mold sections hingedly connected together, a platen carried by one of said sections adjustable to and from the other, and a laterally adjustable side for the other section.

2. In a casting tool, the combination of two mold sections hingedly connected together having operating handles, clamping means carried by one of said sections movable independently with respect thereto, and a side for the other section having a lateral adjustment independent of the movement of said section.

3. In a casting tool, the combination of two mold sections hingedly connected together, one of said sections being provided with a flange surrounding one end and one side thereof, a laterally movable side carried by the other section and adjustable to and from said flange providing a casting space

therebetween, and clamping means carried by said other mold section independent of the pivotal movement of said sections.

4. In a casting tool, the combination of two mold sections of extended width hingedly connected together, one of said sections having an opening therein, a keeper bridging said opening, a platen mounted within said opening, and an adjusting screw threaded through said keeper for forcing said platen in the direction of the other mold section.

5. In a casting tool, the combination of two mold sections, one of which is provided with an opening, a keeper bridging said opening, a platen within said opening, and means carried by the keeper for forcing said platen in the direction of the other mold section.

6. In a casting tool, the combination of two mold sections, one of said sections being constructed with a flange inclosing one side and one end thereof, and a laterally movable side carried by the other section adjustable thereon to and from said flange, providing a casting space therebetween.

7. In a casting tool, the combination of two mold sections hingedly connected together, one of said sections having a flange inclosing one side and one end thereof, a laterally movable side carried by the other section adjustable to and from said flange, providing a casting space therebetween, said other section having an opening, keepers bridging said opening, a platen within said opening, and adjusting screws for forcing said platen in the direction of said space.

8. In a casting tool, the combination of two mold sections, one of which is provided with a casting space having a laterally movable side adjustable to and from the opposite side, a platen carried by the other mold section, and means for forcing said platen in the direction of said space.

9. In a casting tool, the combination of two mold sections hingedly connected together having operating handles, and a side for one of said sections laterally adjustable with respect to each of said sections.

10. In a casting tool, the combination of two mold sections hinged together, a laterally adjustable side for one of said sections carried by the other section, a platen laterally adjustable on said other section, and means for forcing said platen in the direction of said first-named mold section.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOWARD GODDARD.

Witnesses:

ALLEN COOK,
BERTHA KATZMARTZIK.