

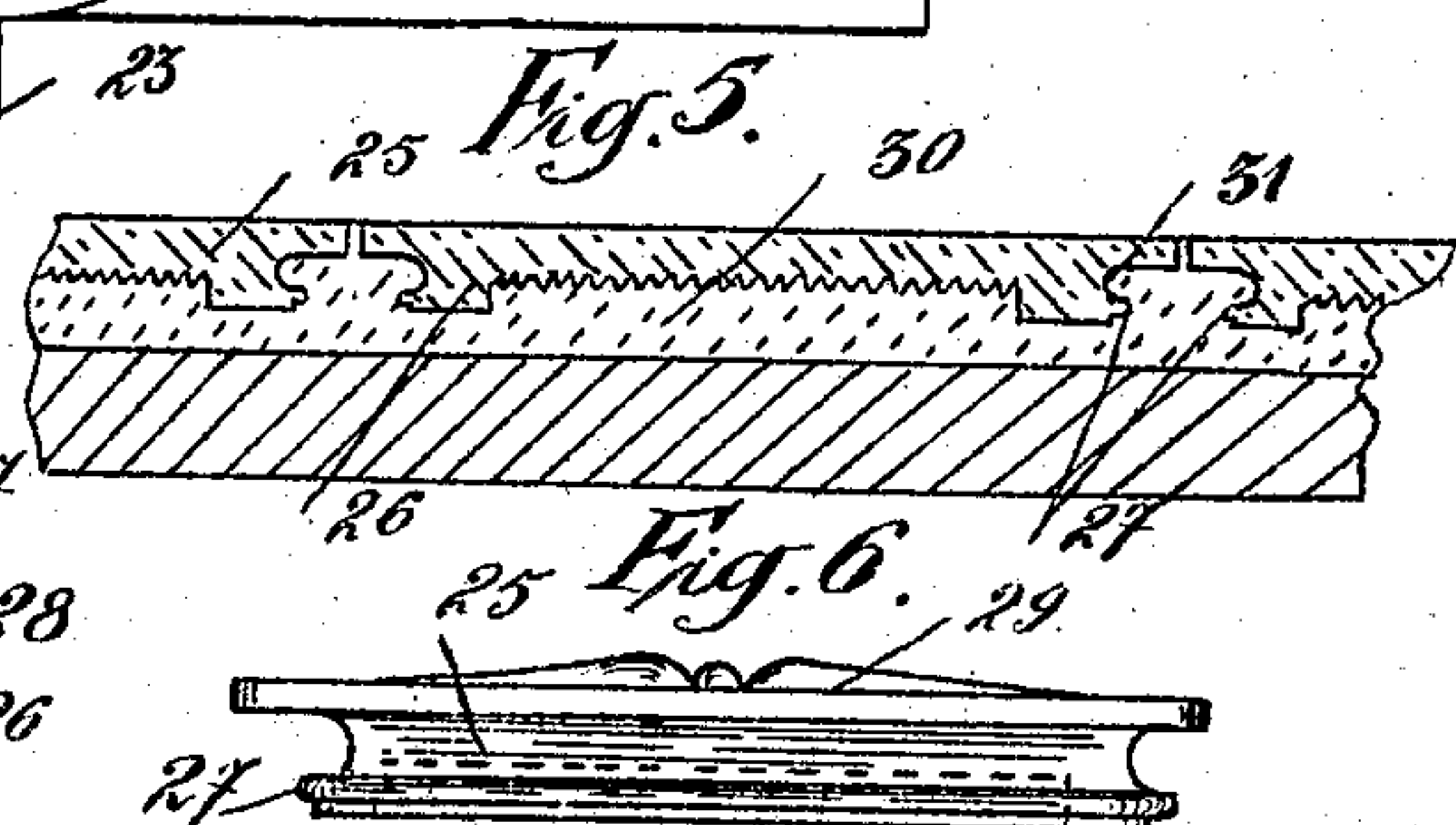
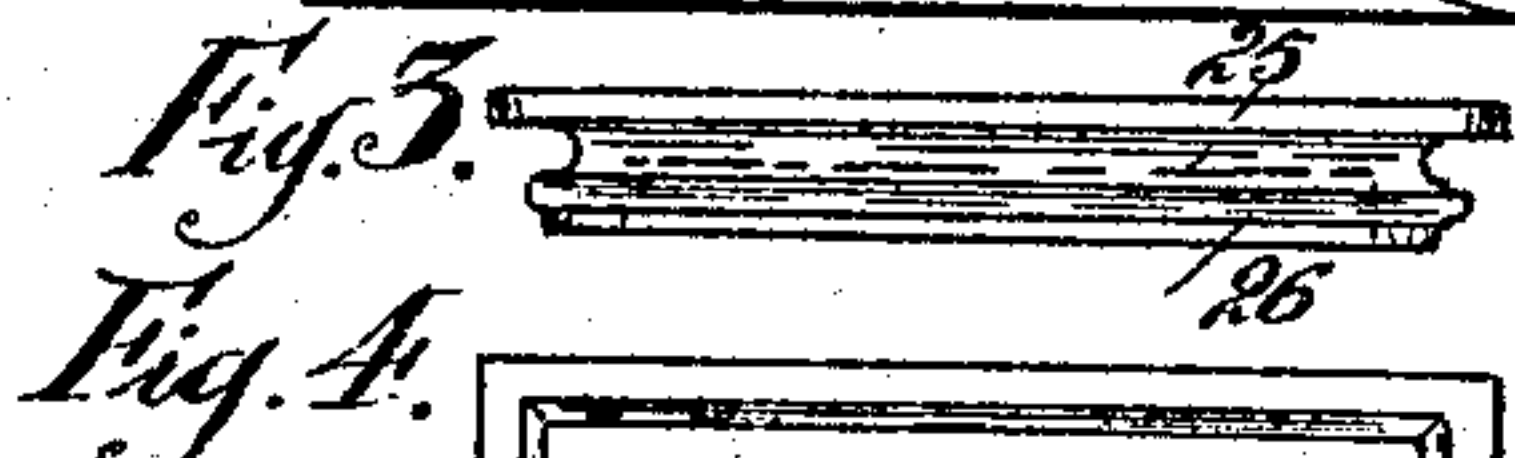
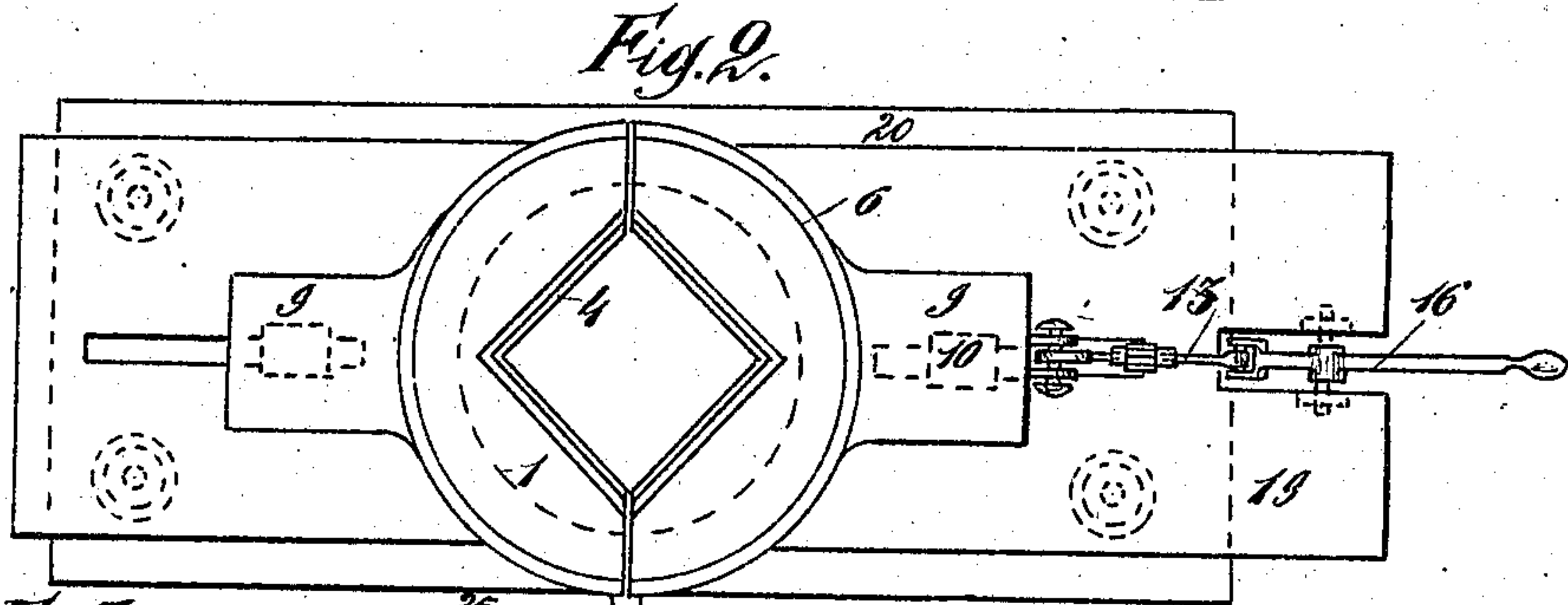
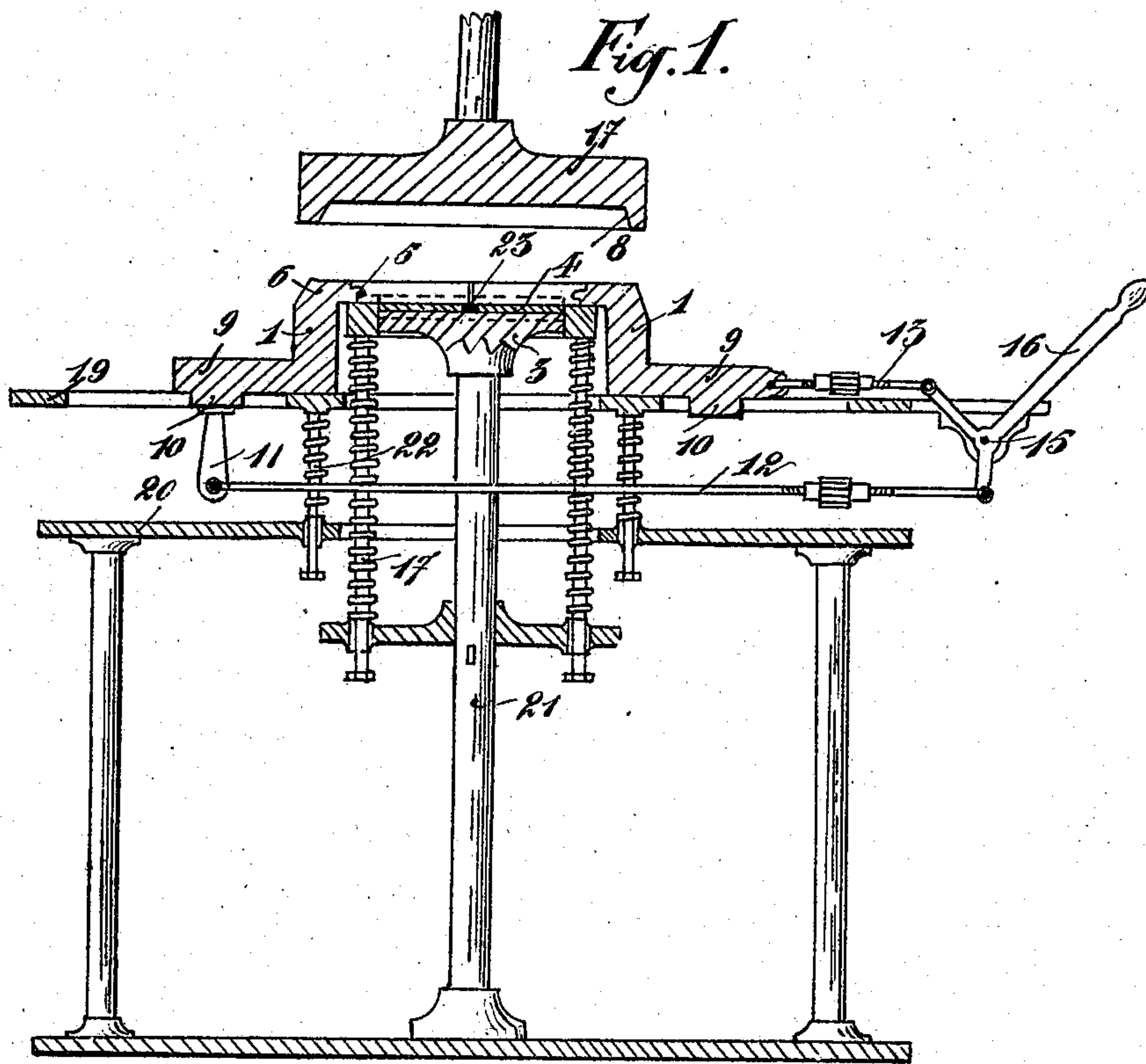
No. 848,078.

PATENTED MAR. 26, 1907.

A. WEILL.

APPARATUS FOR FORMING TILES PROVIDED WITH FLANGED EDGES.

APPLICATION FILED NOV. 6, 1906.



Witnesses

Chas. Scribner

E. C. Thompson

Inventor.

Andre' Weill

By

Edward P. Thompson

Atty

UNITED STATES PATENT OFFICE.

ANDRÉ WEILL, OF BRUSSELS, BELGIUM.

APPARATUS FOR FORMING TILES PROVIDED WITH FLANGED EDGES.

No. 848,078.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed November 6, 1906. Serial No. 342,219.

To all whom it may concern:

Be it known that I, ANDRÉ WEILL, 6 Rue des Houilleurs, Brussels, in the Kingdom of Belgium, have invented certain new and useful Improvements in Apparatus for Forming Tiles Provided with Flanged Edges, (for which application has been made in Austria, October 3, 1906.)

This invention relates to an apparatus for the wholesale production of a new kind of tiles of vitreous or argillaceous material, which tile is provided with flanged edges or cornices which are secured by embedding in the plaster of the wall to be coated. The apparatus allows of their wholesale production in such a way that damage to the tiles is avoided, while the formation of the tile of inequalities or bur at the joints of casting the mold is avoided. The last advantage is of inestimable importance, as such goods can only be sold as waste.

In order to avoid the formation of inequalities or bur, the upper instead of the under face of the tile is selected as the face which is to remain visible, and in this way the work is performed on the hottest and most fluid part of the mass cast in the mold. The pressure during the pressing then takes place on the lower face from below upward, and not as hitherto on the upper face.

The apparatus and tiles are shown in the accompanying drawings as examples.

Figure 1 is a vertical section, and Fig. 2 a plan view of the apparatus, and Fig. 3 a side view. Fig. 4 is a plan view of a tile, Fig. 5 a vertical section of the method of embedding the tile, and Fig. 6 a side view of a tile provided with ornamentation.

The apparatus consists of a mold 1 in two parts, the bottom of which is formed by a plate 2. In a rectangular hole in this plate a platen 3 is provided and covered with a plate 4, having a handle 23. The two halves of the mold are preferably semicylindrical beneath and have on their inner periphery a profile corresponding to that of the tile to be formed. The parts of the mold may be moved to and fro on the molding-table and are provided with projecting parts, the lugs 10 of which engage guides in the table. The movement of the halves of the mold is effected by means of adjustable draw-bars 12 13, which are linked to the free ends of a two-armed lever 15, turned by a handle 16. The projection 9 is connected with the bar 12 by a bar 11. The

molding-table 19 is elastically supported by a fixed table 20 through the intermediary of springs 22. The bottom of the mold is also mounted by means of springs 17 on a plate 18, which is attached to the rod 21. As soon as the mold is filled with the material a stamp 17, which has a conical form on its inner periphery at 8, is depressed. The stamp is depressed by means of suitable mechanism, and then the conical inner face bears on the conical periphery of the halves of the mold which have been pushed together. Under the pressure of the stamp the elastically-mounted mold-halves 1, table 19, and plate 2 descend, while the piston 3 and plate 4 do not change their position, and thus the vitreous mass is thereby pressed from below upward. The upper part of the mass is still hot and fluid and is pressed against the side walls, so that the outer face of the tile is perfectly smooth and even. The opening of the mold is effected by the stamp 17 being first lifted and then the halves of the mold moved apart by operating the lever 15. The completed tile remains on the plate 4. In order to recommence the operation, a fresh slab is now laid on the platen 3.

As shown in Figs. 3, 4, 5, and 6, a tile made according to the method hereinbefore described has on its under face 26 a cornice or flanged edge 27, which also acts as retaining means for the tile, being embedded in the plaster 29 of the wall to be faced or coated. This flanged edge recedes a little from the edge of the upper surface 25. When the tiles are fixed in position, Fig. 5, the plaster forms a tongue 31, which engages and secures the cornices 27.

The part of the tile which is to remain visible may be provided with ornamentations 29, which are obtained by a suitable formation of the stamp 17.

I declare that what I claim is—

1. Apparatus for molding tiles, which comprises in combination a mold formed of movable and fixed parts, a pressing device operating on said mold from above, and means for converting the downward pressure of said device into upward and inward pressure of the parts of the mold.

2. In apparatus for molding tiles the combination with a mold, comprising a fixed member and a movable member, together forming the base of the mold, and movable members forming the sides of the mold, of

means for operating these parts so as to exert upward and inward pressure on under part of the mass to be molded.

3. In apparatus for molding tiles, the combination with a mold, comprising a fixed part and a movable part, together forming the base of the mold, and movable parts forming the sides of the mold, of a pressing device operating on said mold from above, and means for converting the downward pressure of said device into upward and inward pressure of the parts of the mold upon the under part of the mass to be molded substantially as described.

4. In apparatus for molding tiles the combination with a fixed member and a vertically-movable member, forming the base of the mold, and vertically and horizontally movable members, forming the sides of the mold, of means for simultaneously moving the side members inward and the side members and movable base member downward.

5. In apparatus for molding tiles the combination with a mold, comprising a fixed base member and a movable base member and vertically and horizontally movable side members, of means for simultaneously withdrawing the said side members, whereby after

the molding operation the finished tile may be removed.

6. In apparatus for molding tiles, the combination of a mold comprising a fixed base member and a vertically-movable base member, and side members both vertically and horizontally movable, with means for supporting and guiding the horizontal movement of said side members and spring means for supporting said last-mentioned means and said movable base member.

7. In apparatus for molding tiles the combination with a mold comprising a fixed base part and a movable base part, movable side parts and inclined surfaces on said side parts of a pressing device operating from above and an inclined rim on said device corresponding to and adapted to engage with the inclined surfaces on the side parts of the mold substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name, this 20th day of October, 1906, in the presence of two subscribing witnesses.

ANDRÉ WEILL.

Witnesses:

F. PARETTE,
GREGORY PHELAN.