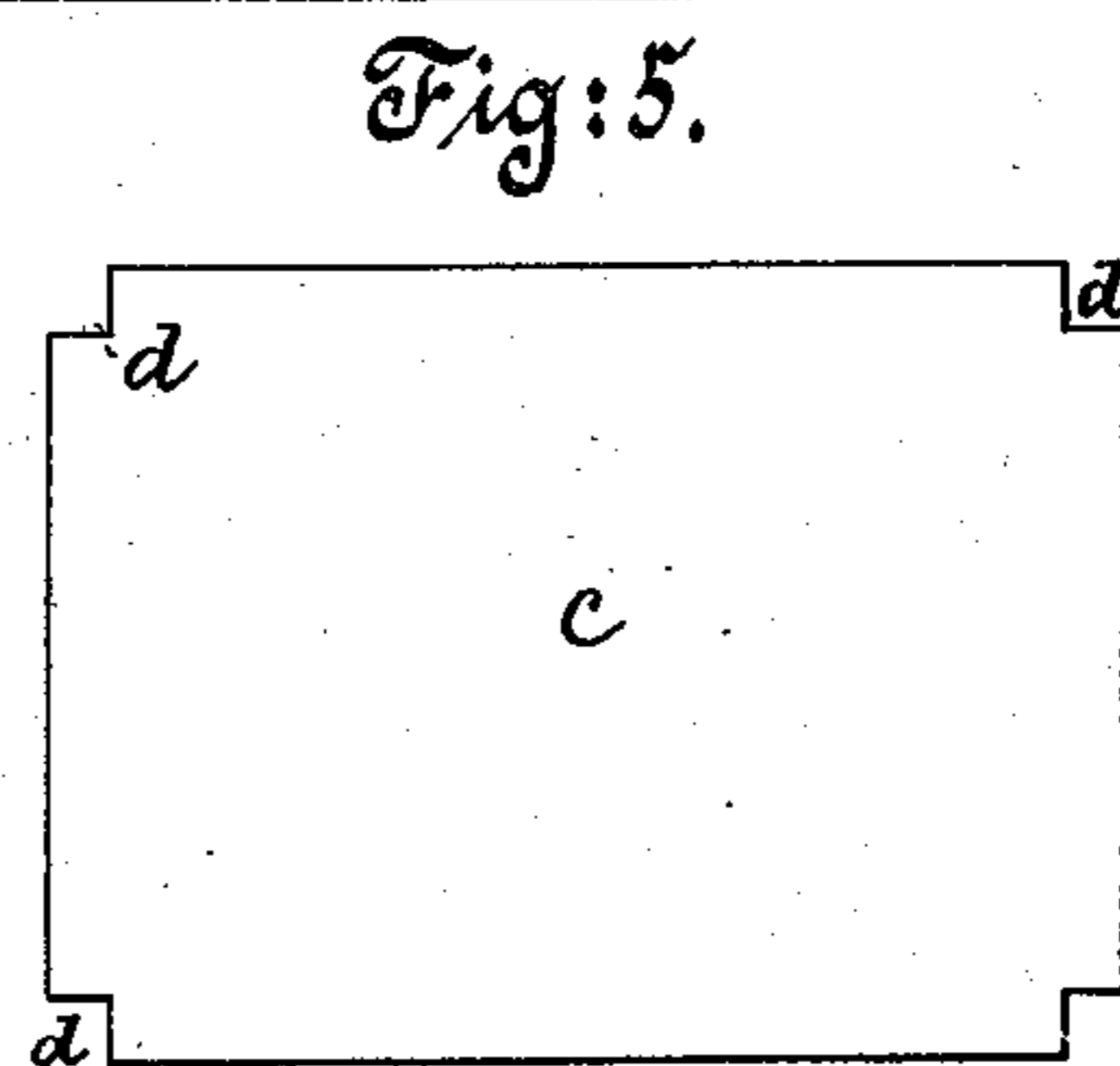
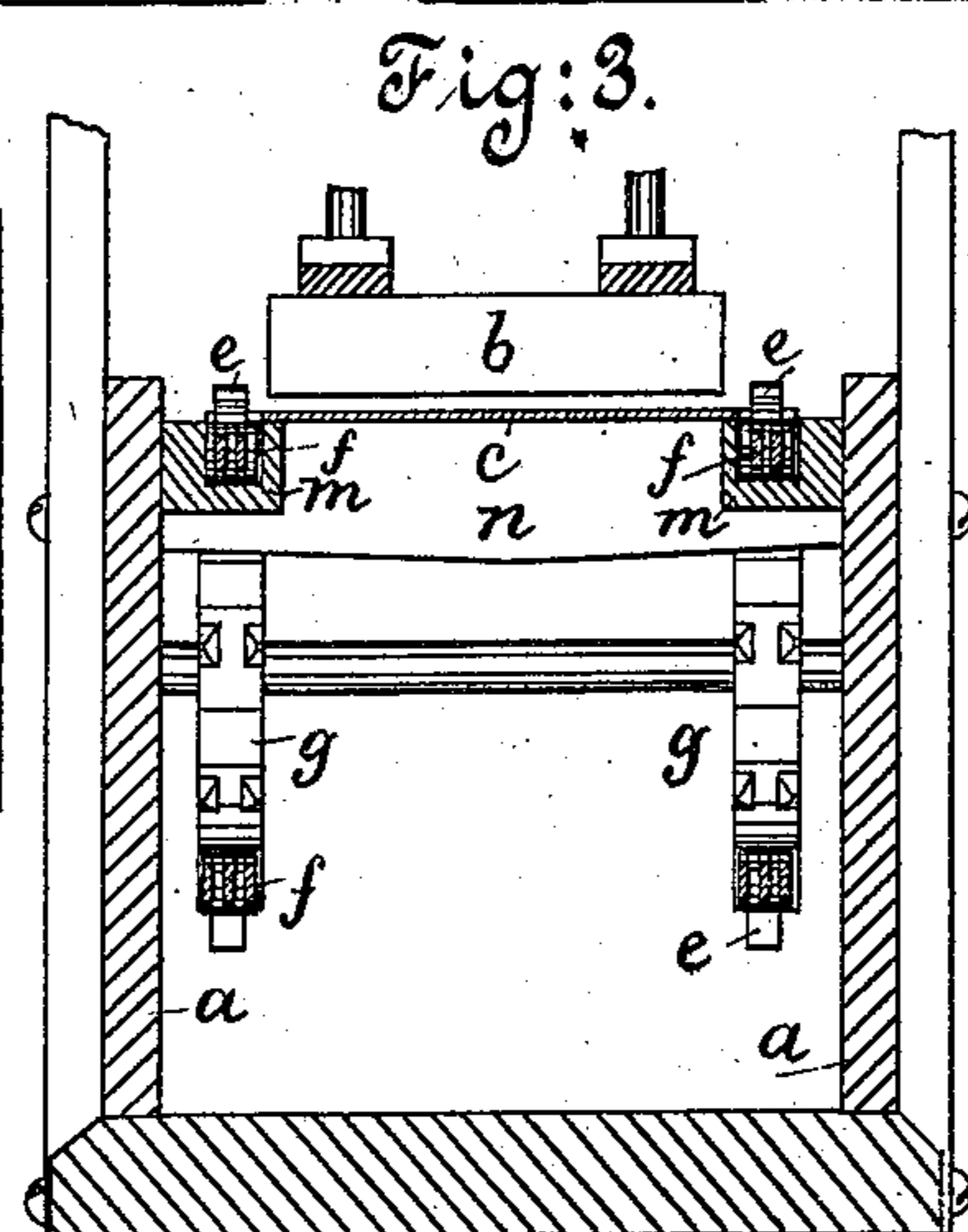
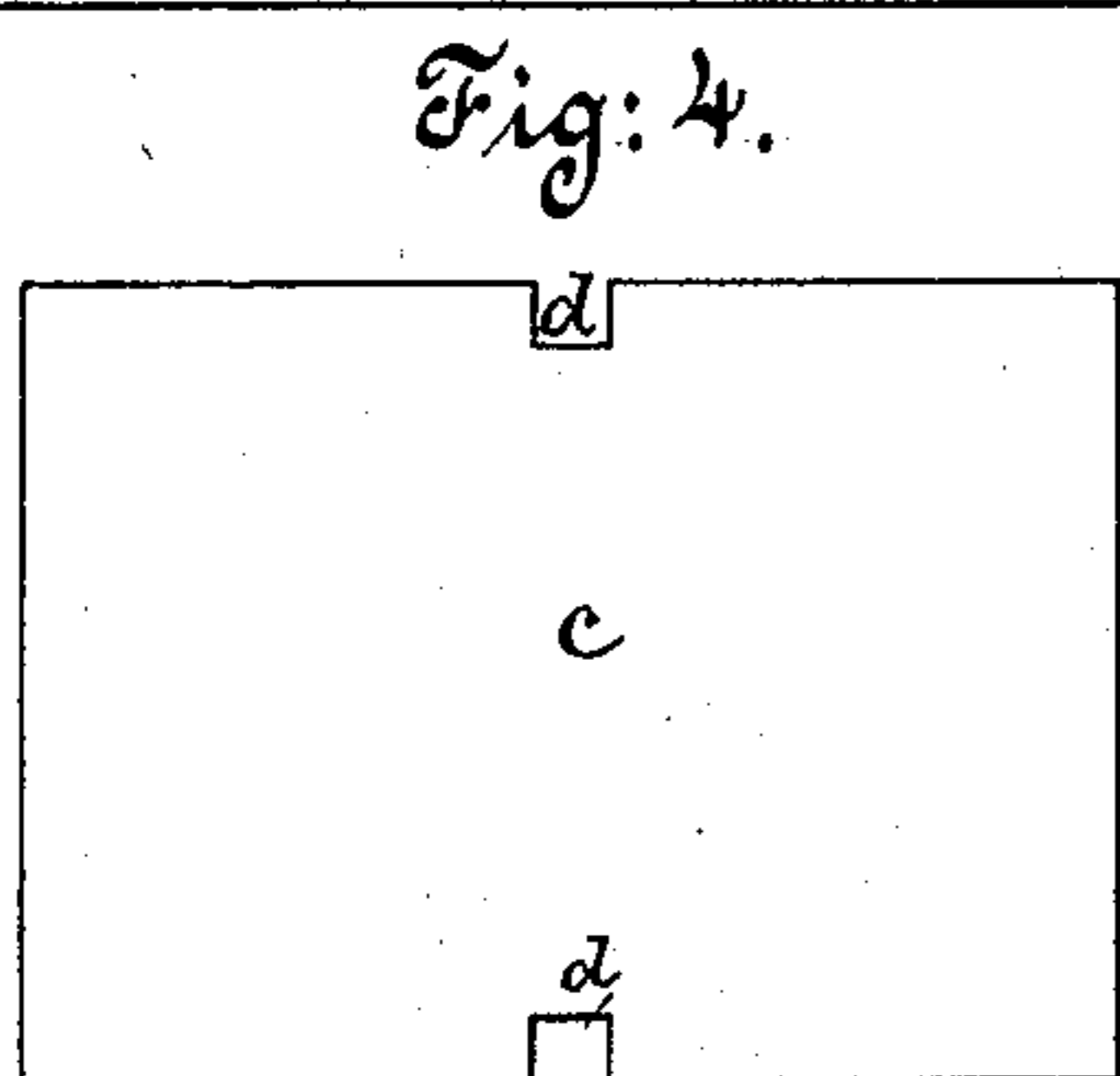
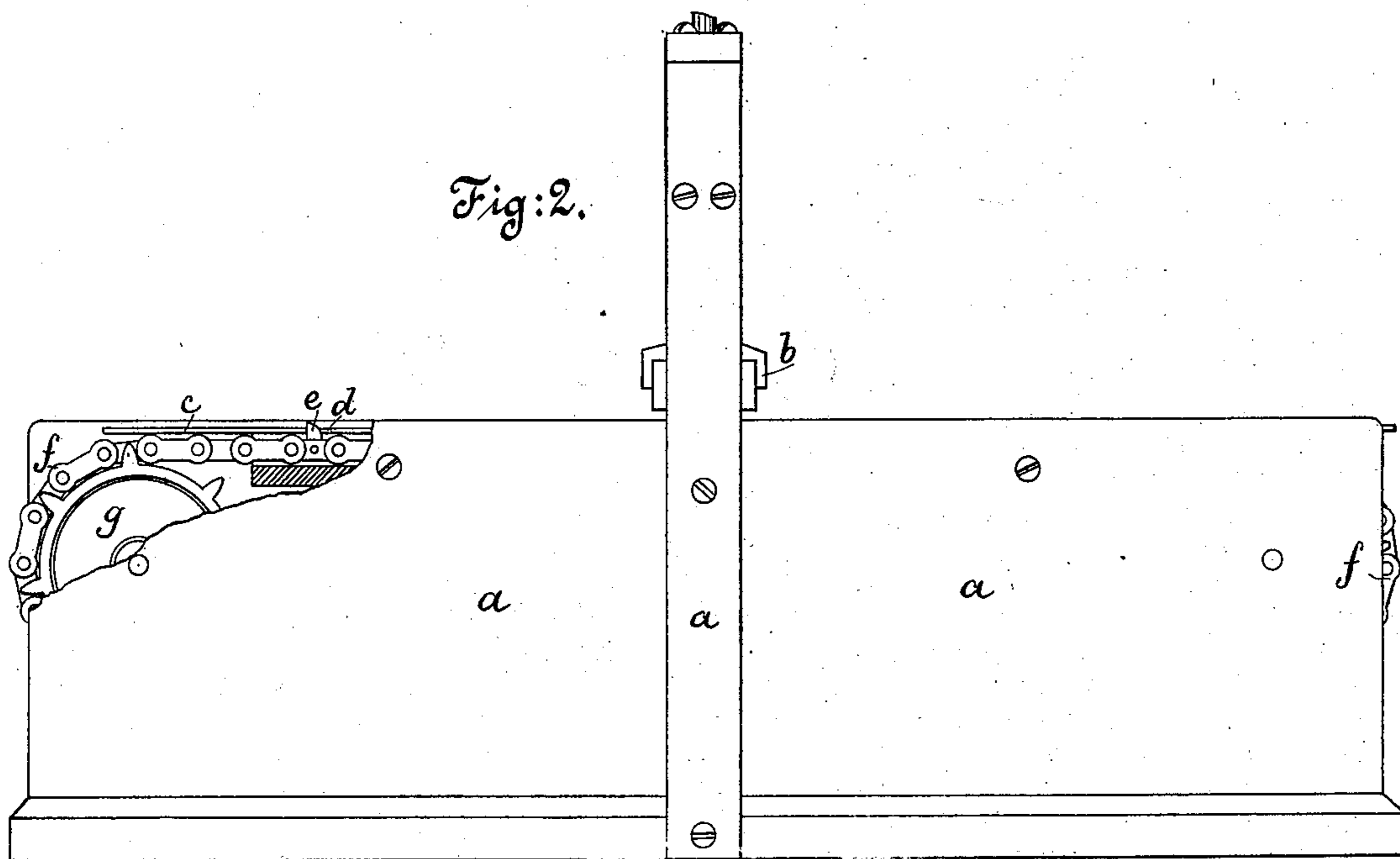
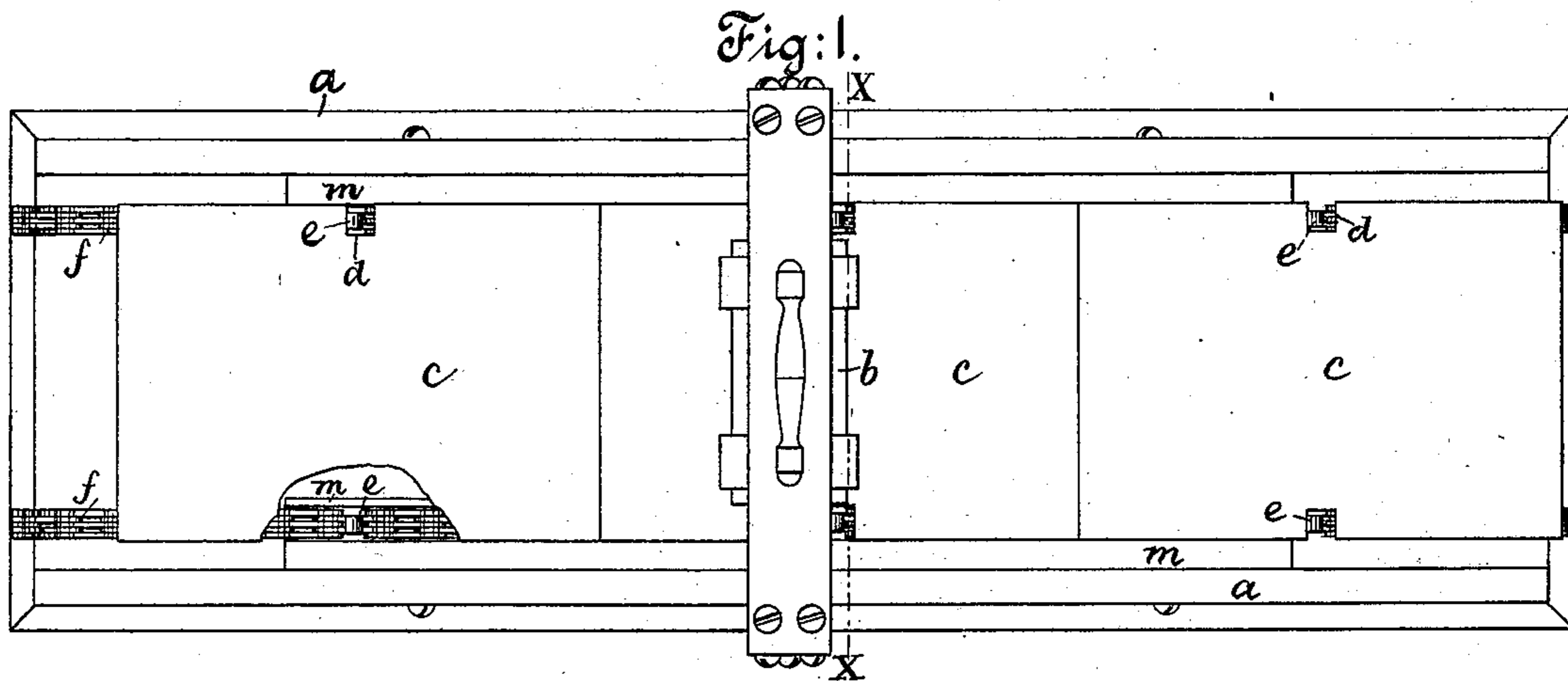


O. B. STILLMAN.
Mechanism for Making Cube Sugar.

No. 230,675.

Patented Aug. 3, 1880.



Witnesses.
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L. F. Connor.

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UNITED STATES PATENT OFFICE.

OSCAR B. STILLMAN, OF BROOKLINE, MASSACHUSETTS.

MECHANISM FOR MAKING CUBE-SUGAR.

SPECIFICATION forming part of Letters Patent No. 230,675, dated August 3, 1880.

Application filed February 2, 1880.

To all whom it may concern:

Be it known that I, OSCAR B. STILLMAN, of Brookline, county of Norfolk, State of Massachusetts, have invented an Improvement in Mechanism for Making Cube-Sugar, of which the following description, in connection with the accompanying drawings, is a specification.

My invention relates to machinery for making cube-sugar; and it is intended as an improvement on that class of machines described in United States Letters Patent Nos. 208,521 and 208,522, dated October 1, 1878, in which a slab of sugar is formed on a plate and then moved under the cutting and pressing mechanism, by which it is formed into cubes and removed upon the said plates, which form the upper surface of the bed-plate upon which the sugar is pressed.

In the said patents the plates were described as moved forward automatically from the point at which the sugar is spread upon them to form a slab to the point at which it is pressed into cubes, but the mechanism for moving the plates was not shown. In practice, however, the plates were provided with lugs on their under side, to be engaged by the feeding mechanism to feed them forward in succession to the desired position.

My invention consists in a novel construction of the plates and their moving or feeding mechanism, whereby either side of the plate may be used to receive the sugar. Plates for this purpose, when subjected to pressure always on one side, soon become curved and unfit for further use until straightened by an operation of considerable expense; but with plates adapted to be used with either side subjected to pressure this straightening operation may be dispensed with by proper care in reversing the plate from time to time.

The plate-feeding mechanism is herein shown as consisting of endless chains kept in motion by suitable pulleys and provided with lugs at proper distances apart, to engage notches in the plates and move them forward, the said plates being alike on both sides, whereby they may be reversed before becoming bent by the pressure of the sugar-pressing mechanism.

Figure 1 is a top view of a sugar-cube-pressing machine provided with my sugar-receiving plates and plate-feeding mechanism; Fig. 2, a side view thereof, with a portion of the frame broken away; Fig. 3, a vertical section on line X X, Fig. 1; Fig. 4, one of the plates detached, and Fig. 5 a modification thereof.

The sugar-feeding mechanism is omitted in the drawings, as it may be of any usual kind, and forms no part of my invention.

The frame *a* supports the pressing mechanism *b*, which may be as in the patents referred to.

The sugar-holding plates *c* are notched, as at *d*, to be engaged by lugs *e*, on an endless chain, *f*, carried by the pulleys *g*, and guided in suitable guideways *m*, which also answer to guide and support the plates *c*.

When under the pressing mechanism the plates *c* are properly supported on the bed-plate *n*, suitably supported in the frame-work *a*.

As shown in Fig. 5, the notches are placed at the corners of the plate; but in the other figures they are shown at the middle of the edges of plates, and the lugs *e* are placed at suitable intervals on the chain *f* to bring the edges of the plates close to one another, to form a continuous surface, as shown in Fig. 1, and it will be observed that with this construction both sides of the plate may be finished alike and free from projections, so that either side may be placed uppermost to receive the sugar.

I claim—

In a machine for making cube-sugar, an endless chain provided at intervals with lugs, combined with sugar-holding plates provided with notches, as described, to be engaged by the said lugs, and made with both faces alike, to enable it to be used with either face uppermost to receive the sugar to be pressed, substantially as described.

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

OSCAR B. STILLMAN.

Witnesses:

G. W. GREGORY,
N. E. C. WHITNEY.