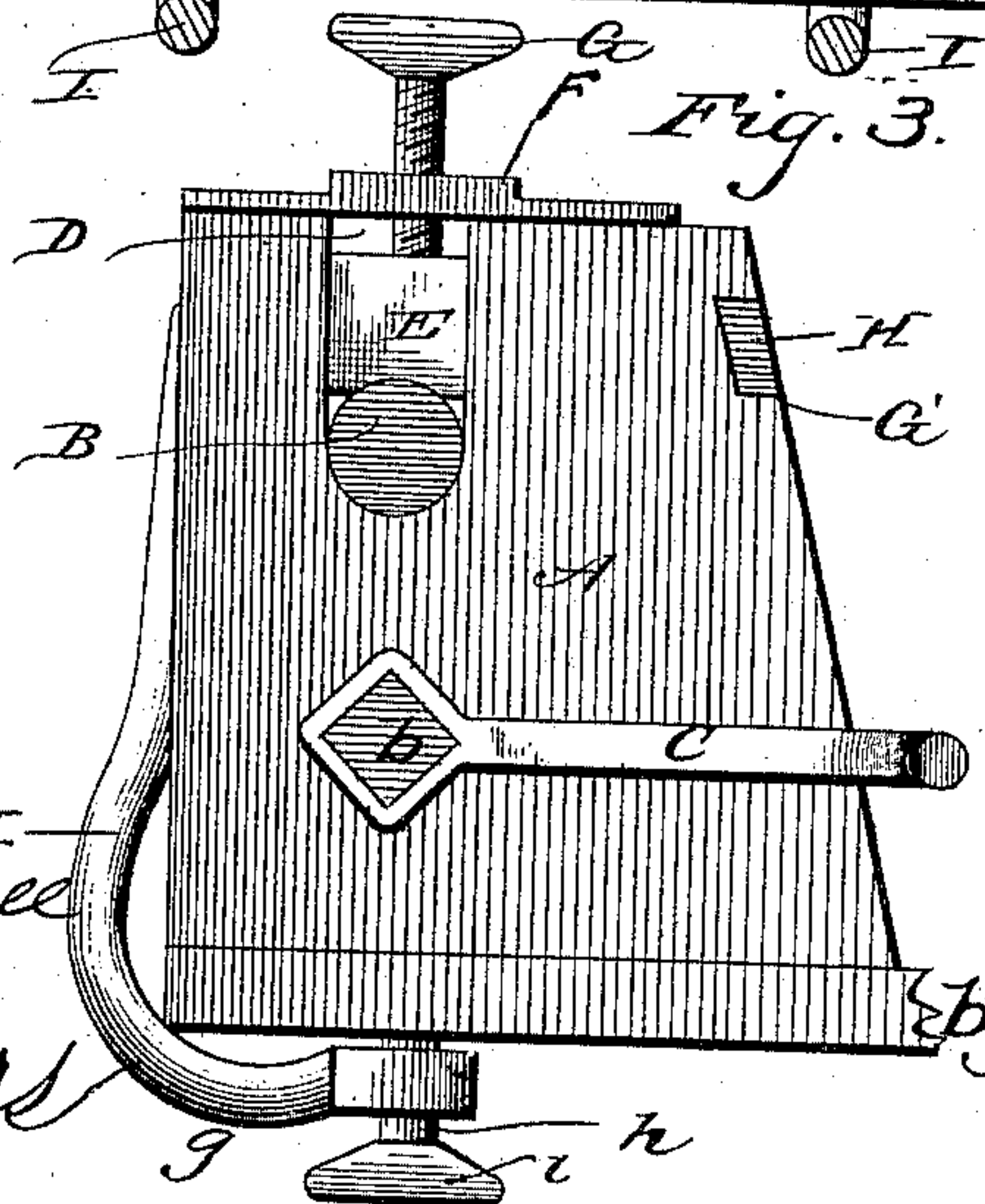
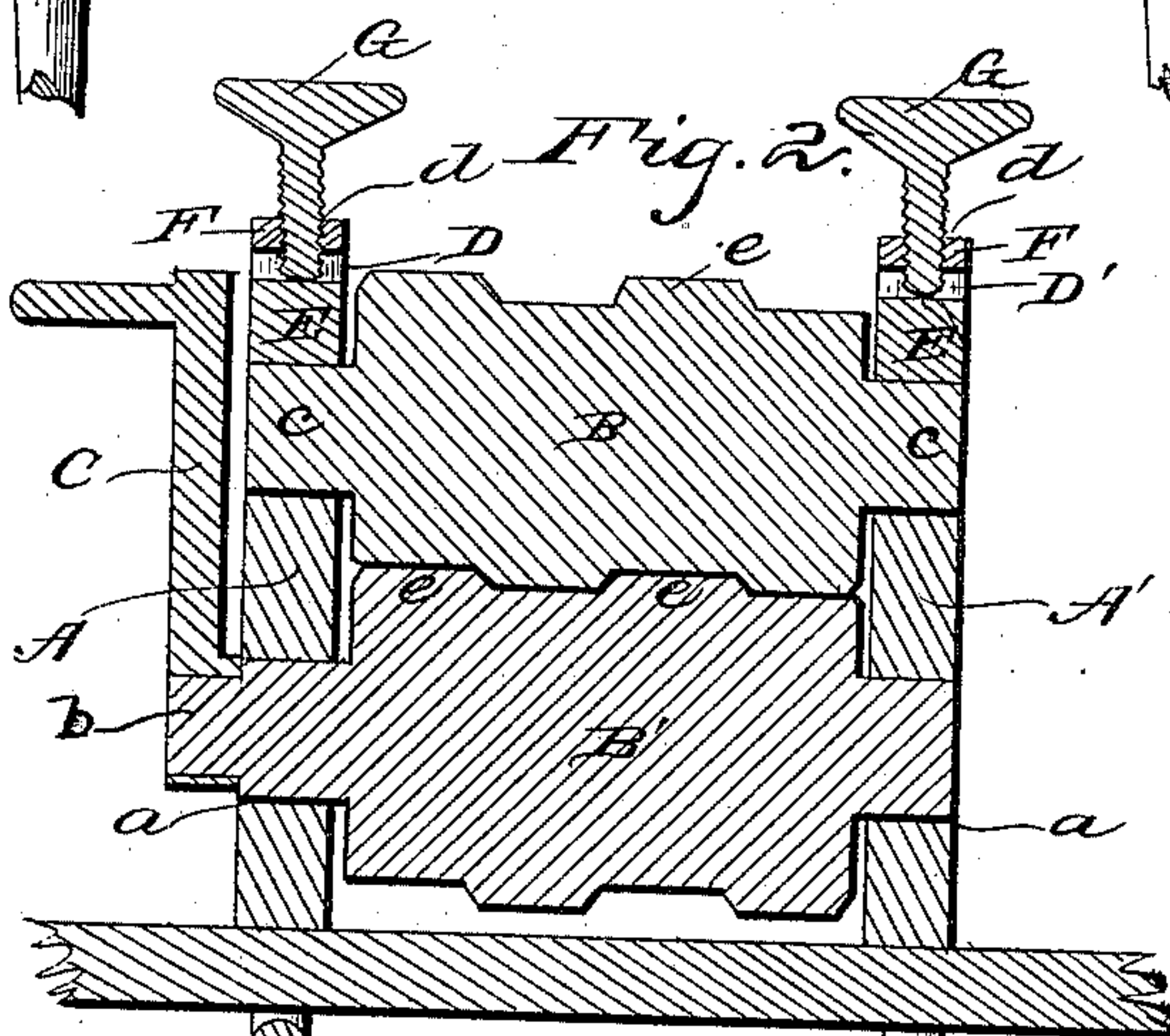
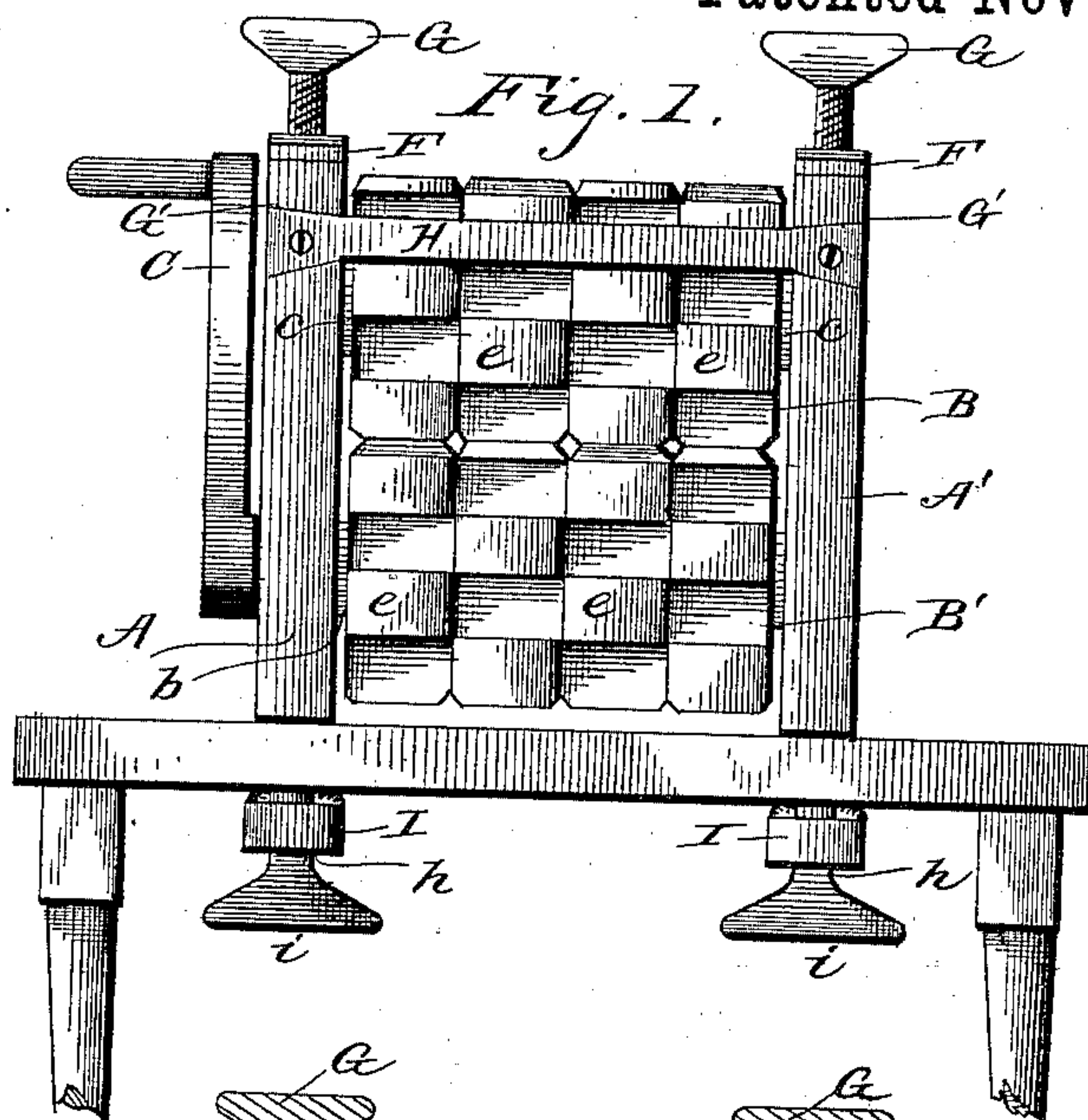


(No Model.)

W. L. FREESE.
MEAT CRUSHER OR TENDERER.

No. 330,310.

Patented Nov. 10, 1885.



WITNESSES

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MEAT CRUSHER OR TENDERER.

SPECIFICATION forming part of Letters Patent No. 330,310, dated November 10, 1885.

Application filed November 5, 1884. Serial No. 147,228. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. FREESE, a citizen of the United States, residing at Mohawk Village, in the county of Coshocton and State of Ohio, have invented a new and useful Improvement in Meat Crushers or Tenderers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to rotary crushers, and more particularly to a device of this character for crushing or tendering meat, the object being to provide a device for this purpose which shall be cheap and simple in its construction and effective in its operation.

A further object of the invention is to provide improved means for removably securing the device to a table or other object when it is to be operated.

A further object of the invention is to provide improved means for adjusting the rollers or crushers to the thickness of the meat to be operated upon.

In the drawings, Figure 1 is a front elevation of my improved crusher secured to a table. Fig. 2 is a transverse vertical section, and Fig. 3 is a side elevation of the same.

A A' represent the sides or uprights for supporting the rollers or crushers B B'. The roller B' has bearing in openings or perforations *a*, formed near the bottom of the sides or uprights A A'. One of the trunnions, *b*, of this roller B' extends a short distance beyond the side of the upright to receive an operating-crank, C, fitted upon said trunnion.

D D' represent slots or recesses formed in the sides of the uprights A A' to receive the trunnions *c* of the roller or crusher B.

E represents blocks fitting in said recesses or slots D D', and having their lower ends curved or hollowed out to conform to the shape of the trunnions *c* of the roller B.

F represents metal strips or plates secured upon the top edges of the uprights A A' and over the slots or recesses D, and are provided with screw-threaded openings or perforations *d* to receive set-screws G, the ends of the said set-screws bearing against the upper or top edges of the blocks E. Thus the roller or crusher B may be vertically adjusted to the thickness of the meat to be operated upon. The rollers B B' are provided with a series of burrs, *e*, upon their surface, which register the burrs with the openings of the adjacent roller when the said rollers are rotated.

G' represents dovetailed slots or grooves formed in the front sides of the uprights A A', near their upper edges, and adapted to receive the ends of a cross-bar, H, which are dovetailed to fit said slots or grooves. By this connection the rollers may be readily detached from the uprights for the purpose of cleaning, by simply removing the dovetailed cross-bar and then one of the sides or uprights.

I represents angle irons or brackets secured to the front sides of the uprights A A', and having their ends bent or turned under said uprights, as shown at *g*. These brackets or irons are provided at their ends with screw-threaded perforations or openings *h* to receive set-screws *i*, for securing the crusher or tenderer to a table or other object.

The operation is as follows: The crusher is secured to a table, the edges or top portion of the same fitting between the brackets I and the lower ends of the uprights, and then secured by means of the set-screws. The meat is passed between the rollers, which may be vertically adjusted, as described.

From the foregoing it will be apparent that the device above described is simple in construction and affords a ready and effective means for crushing or tendering meat, and obviating the noise of hammering, the usual means employed for this purpose.

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

As an improvement in meat-tenderers, the combination, with the uprights A A', having dovetail slots G G' at their upper ends, and the rollers or crushers B B', having their trunnions fitted in bearings of the said uprights, of a cross-bar, H, dovetailed at its ends, extending across so as to connect the same, and having its ends seated in the slots, and angle irons or brackets I, secured to each upright and carrying set-screws to engage with the under side of the table, whereby, when the rollers are being detached from the uprights, the latter are supported in position by the angle-irons, and thus the attachment is facilitated, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

Witnesses: WILLIAM LAWRENCE FREESE.
JOHNSON WEATHERMORE,
J. S. ELLIOTT.