

(No Model.)

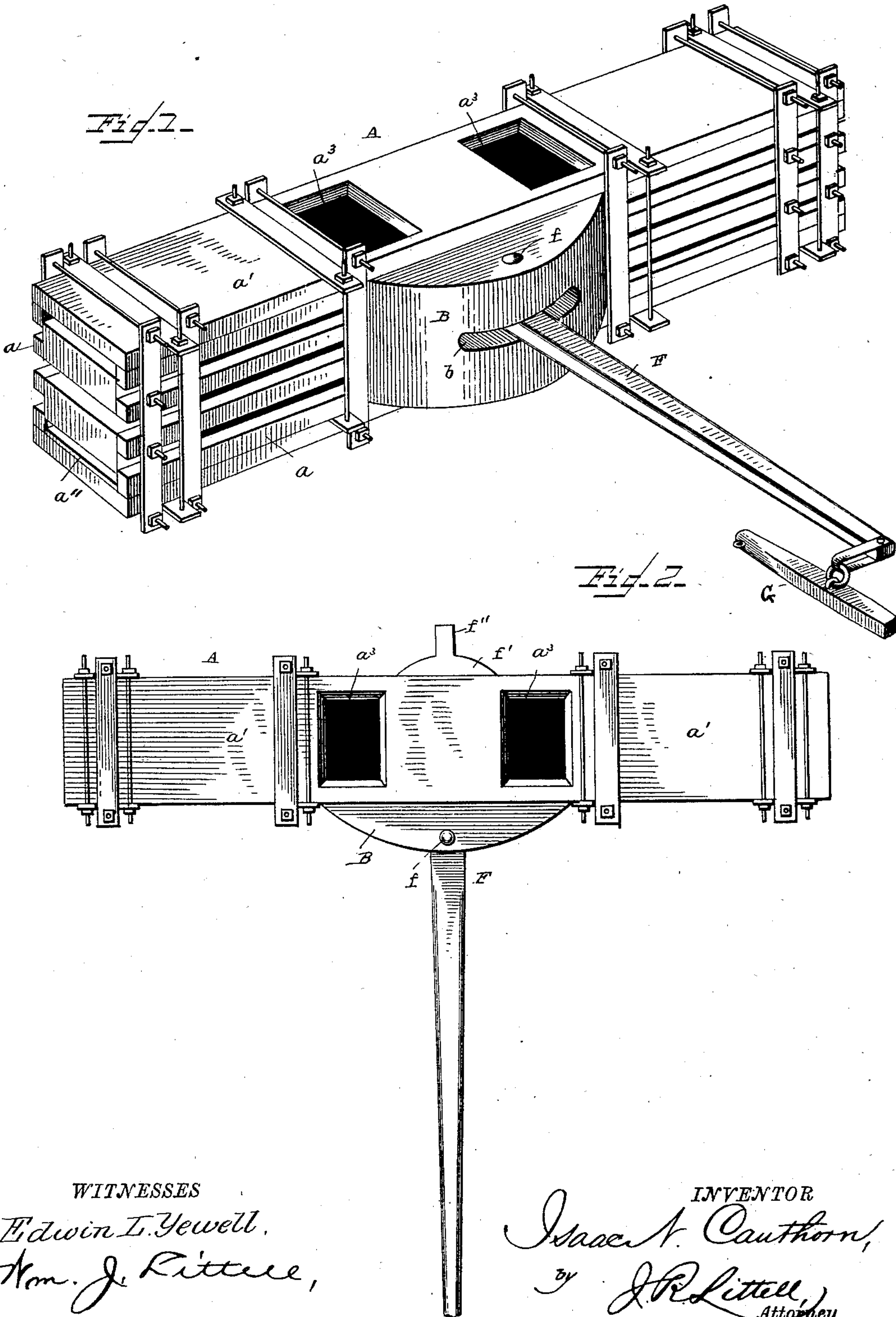
2 Sheets—Sheet 1.

I. N. CAUTHORN.

BALING PRESS.

No. 374,450.

Patented Dec. 6, 1887.



WITNESSES

Edwin L. Yewell,
Hon. J. Rittell,

INVENTOR

Isaac N. Cauthorn,
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(No Model.)

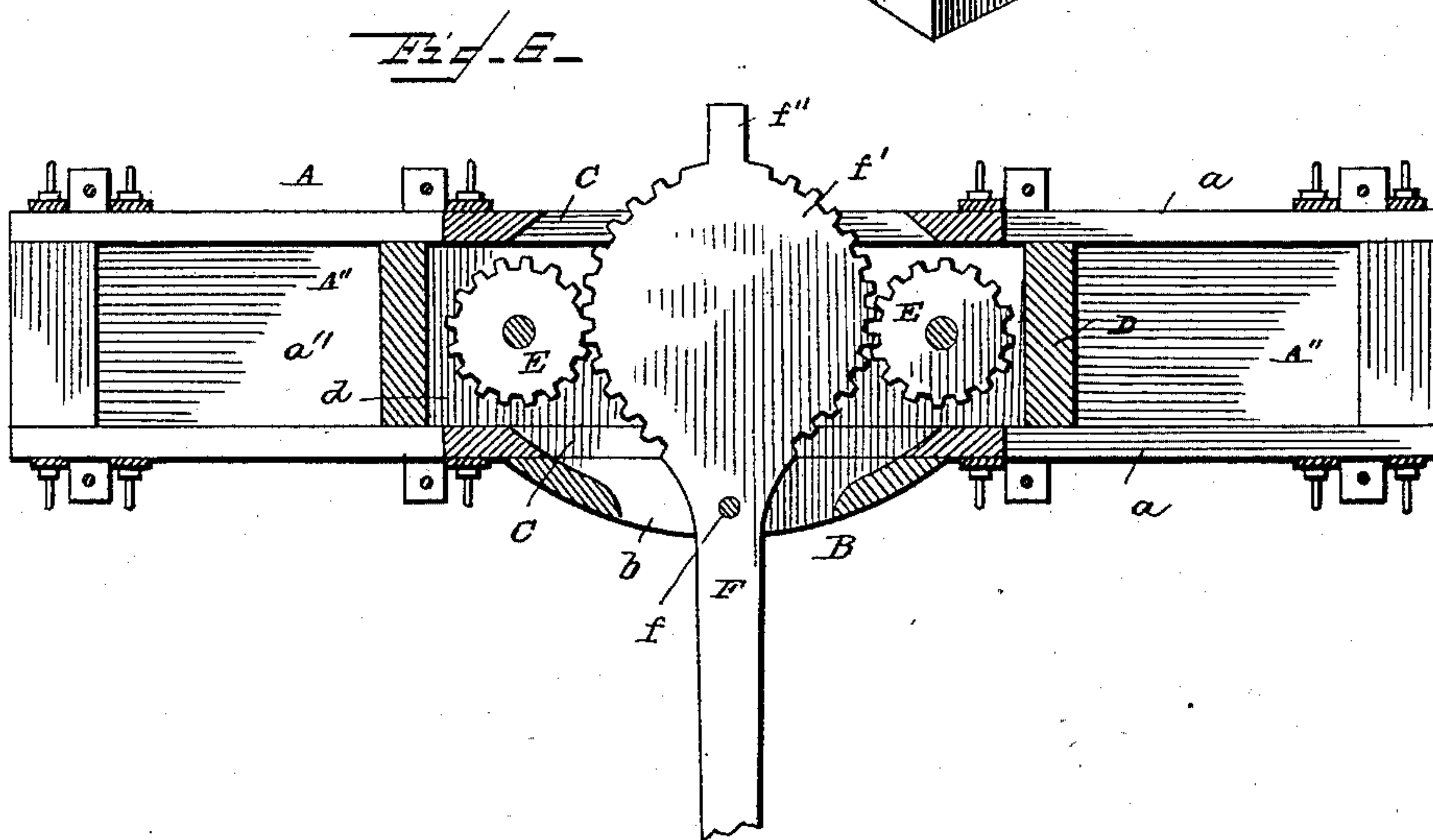
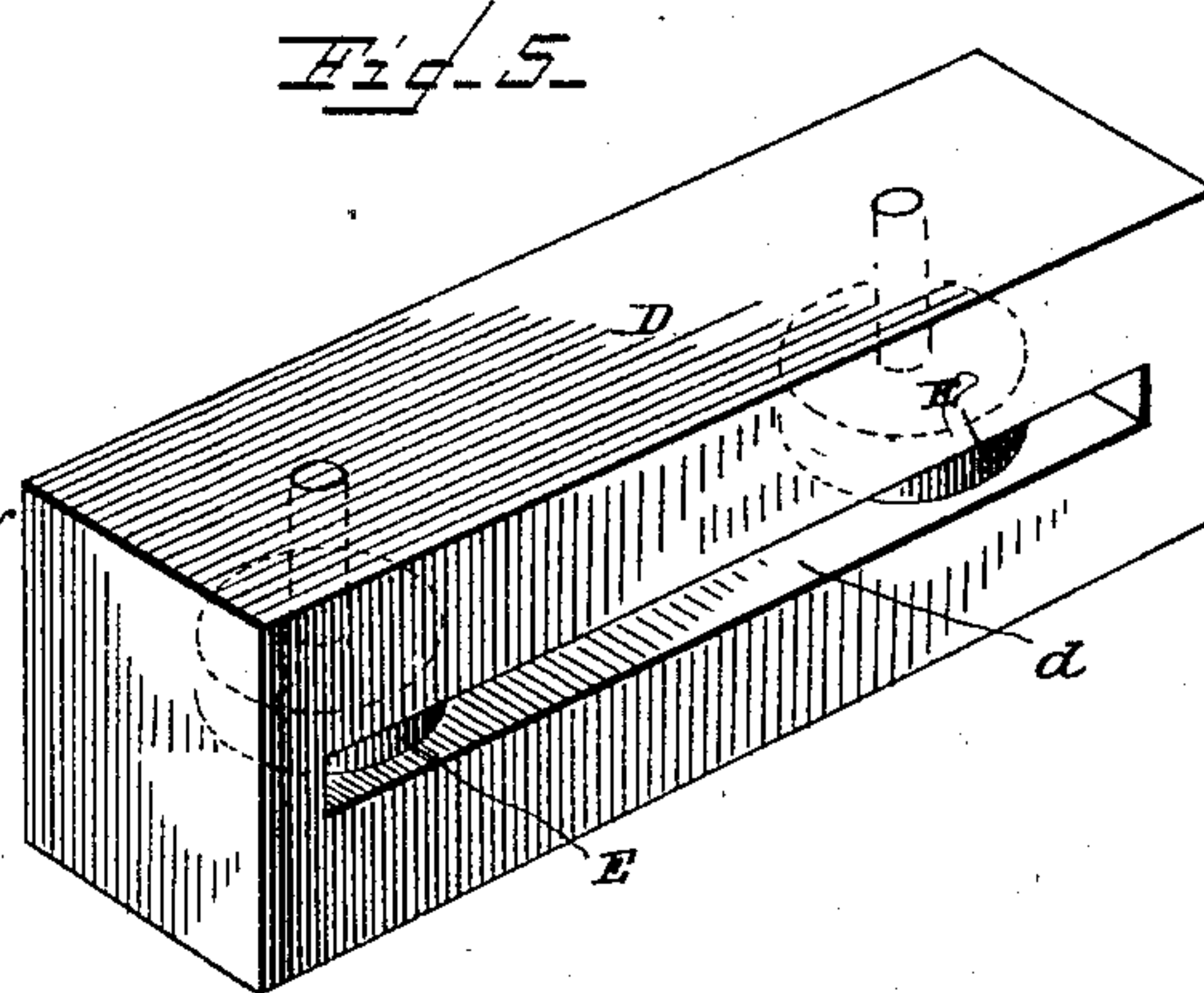
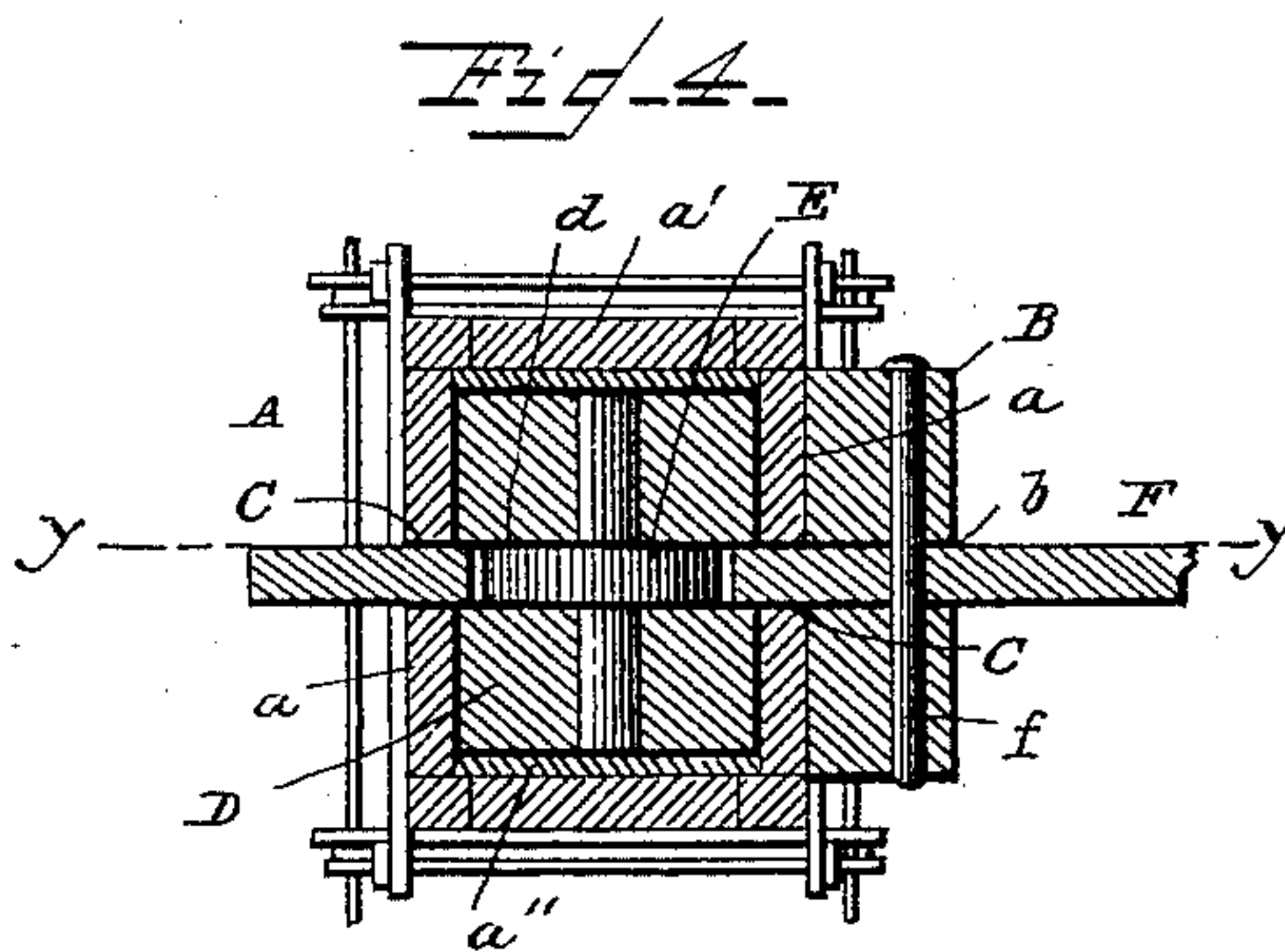
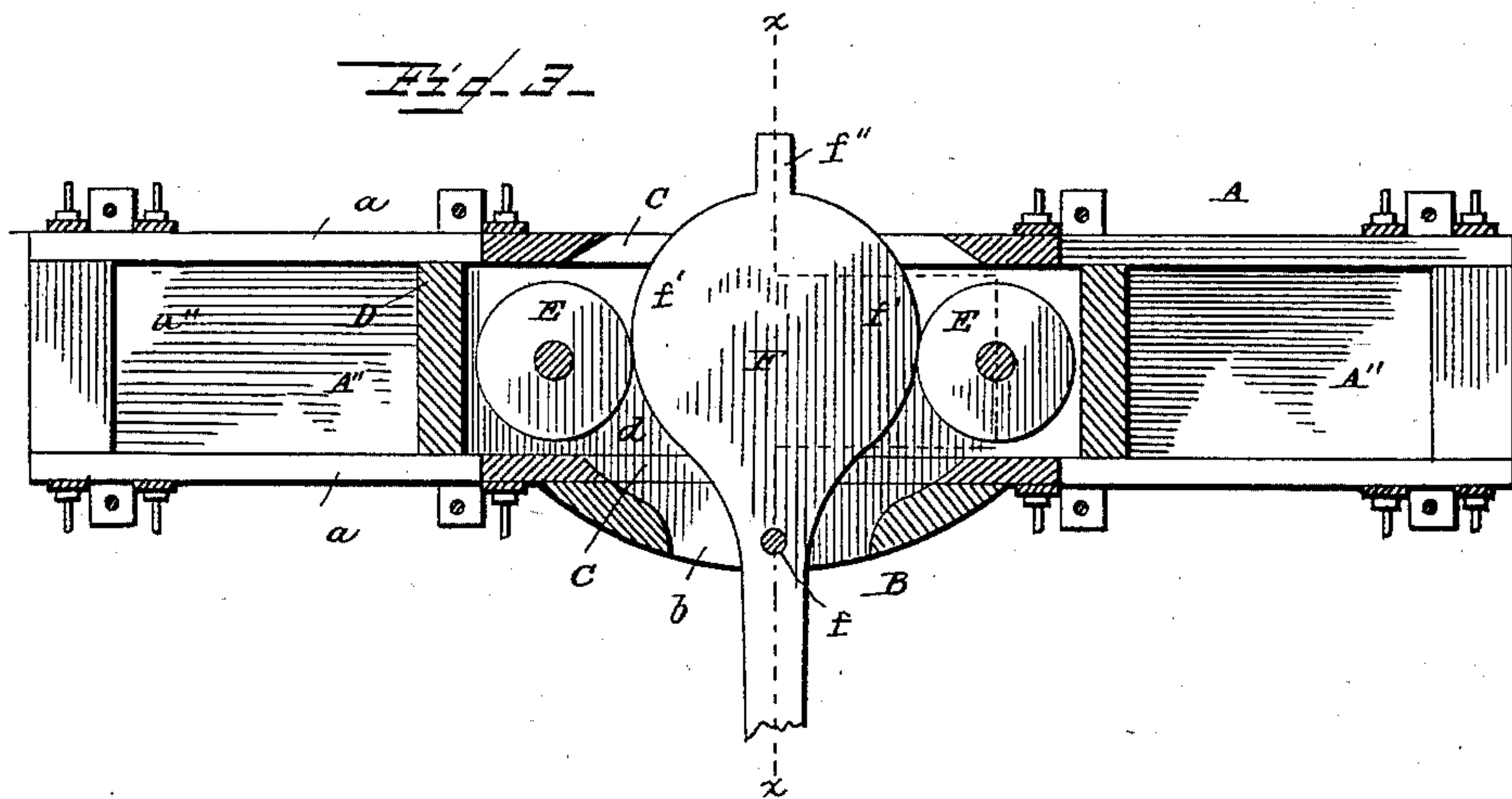
2 Sheets—Sheet 2.

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Edwin I. Yewell,
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INVENTOR

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UNITED STATES PATENT OFFICE.

ISAAC N. CAUTHORN, OF RICH HILL, MISSOURI.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 374,450, dated December 6, 1887.

Application filed June 25, 1887. Serial No. 242,432. (No model.)

To all whom it may concern:

Be it known that I, ISAAC N. CAUTHORN, a citizen of the United States, residing at Rich Hill, in the county of Bates and State of Missouri, have invented certain new and useful Improvements in Baling-Presses; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to baling-presses, and more particularly to that class in which a baling-chamber is employed at each end of the press, in connection with a sliding plunger adapted to be reciprocated within the press and compress or form the bale at each movement; and the object of my invention is to provide simple and improved means for actuating the plunger.

In the drawings, Figure 1 is a perspective view of a baling-press embodying my invention. Fig. 2 is a top or plan view of the same. Fig. 3 is a horizontal sectional view on the line $y y$, Fig. 4. Fig. 4 is a vertical transverse sectional view on the line $x x$, Fig. 3. Fig. 5 is a detail perspective view of the plunger. Fig. 6 is a view, in plan and section, illustrating a modification.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the press, which is of oblong form, rectangular in cross-section, and may be of any well-known or suitable construction comprising the sides $a a$, the top a' , and floor or bottom a'' . The press comprises the two baling-chambers A' A'' , and is provided with two openings, $a^3 a^3$, in its top, through which the hay or other material to be pressed is introduced into the baling-chamber.

In the sides $a a$, at the center of the press, are formed longitudinally-disposed slots C C, and at one side is provided a suitable bracket or block, in which the lever for operating the plunger is fulcrumed. This bracket may be formed by a suitable block or frame, B, secured to one side of the press over one of the slots C, and having a slot, b , registering with and corresponding to the slots in the side of the press.

D designates the plunger, which is disposed centrally within the press and provided with a horizontal slot or opening, d , at each end of which a roller, E, is journaled.

F designates the operating-lever, which is fulcrumed upon a pin, f , in the bracket or block B, and has a rounded portion, f' , forming curved edges, which engage the rollers in the plunger. The rounded portion of the lever is provided with an extension, f'' , which projects through the slot in the rear side of the press, and is adapted to limit the movement of the plunger by engaging the ends of the said slot.

It is manifest that the rollers E E and the rounded portion f' of the lever may be provided with cogs or teeth forming gearing, substantially as shown in Fig. 6 of the drawings.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. The hay or other material to be pressed is introduced through one of the openings a^3 into one of the chambers A' of the press, and the lever is then moved to operate the plunger and compress the hay. While the plunger is making one stroke hay is introduced into the other baling-chamber of the press, and acted on by the return-stroke of the plunger, and the alternate operation thus continued. The lever may be operated by any suitable power; but I prefer to employ horse-power connected with the lever by a singletree, G, pivoted at the outer end, and thus adapted to swing and enable the operation of the lever in reverse direction.

I claim as my invention—

1. The combination of a baling-press case having slots in its sides, a plunger provided with journaled rollers, with a lever fulcrumed upon the press-case and projecting through said slots, said lever having a rounded portion forming curved edges engaging the rollers in the plunger, substantially as and for the purpose set forth.

2. The combination of a baling-press case having slots in its sides, a plunger having a slot or opening in which are journaled rollers, a bracket or block secured at the side of the press, and a lever fulcrumed in said bracket and extending through said slots, the lever

being formed with a rounded portion engaging the rollers in the plunger, substantially as and for the purpose set forth.

3. The combination, with a baling - press
5 case provided with slots in its sides, the plunger having a slot or opening in which are journaled rollers, of an operating-lever projecting through said slots and adapted to engage the rollers and operate the plunger, said lever being provided with an extension projecting

through the slot in the rear wall of the press and engaging the end thereof to limit the movement of the plunger, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in 15
presence of two witnesses.

ISAAC N. CAUTHORN.

Witnesses:

C. E. JONES,

B. W. JOHNSON.