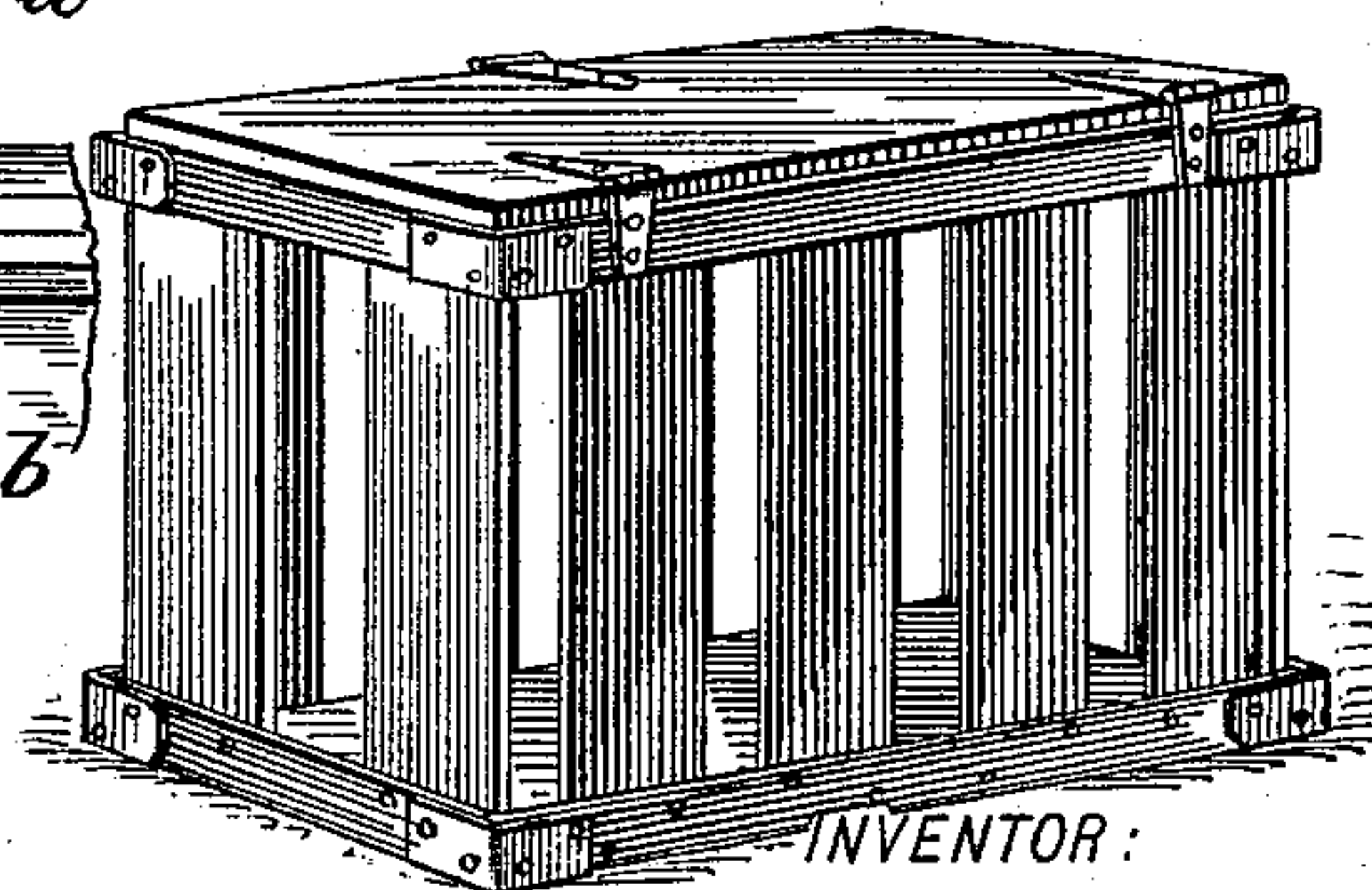
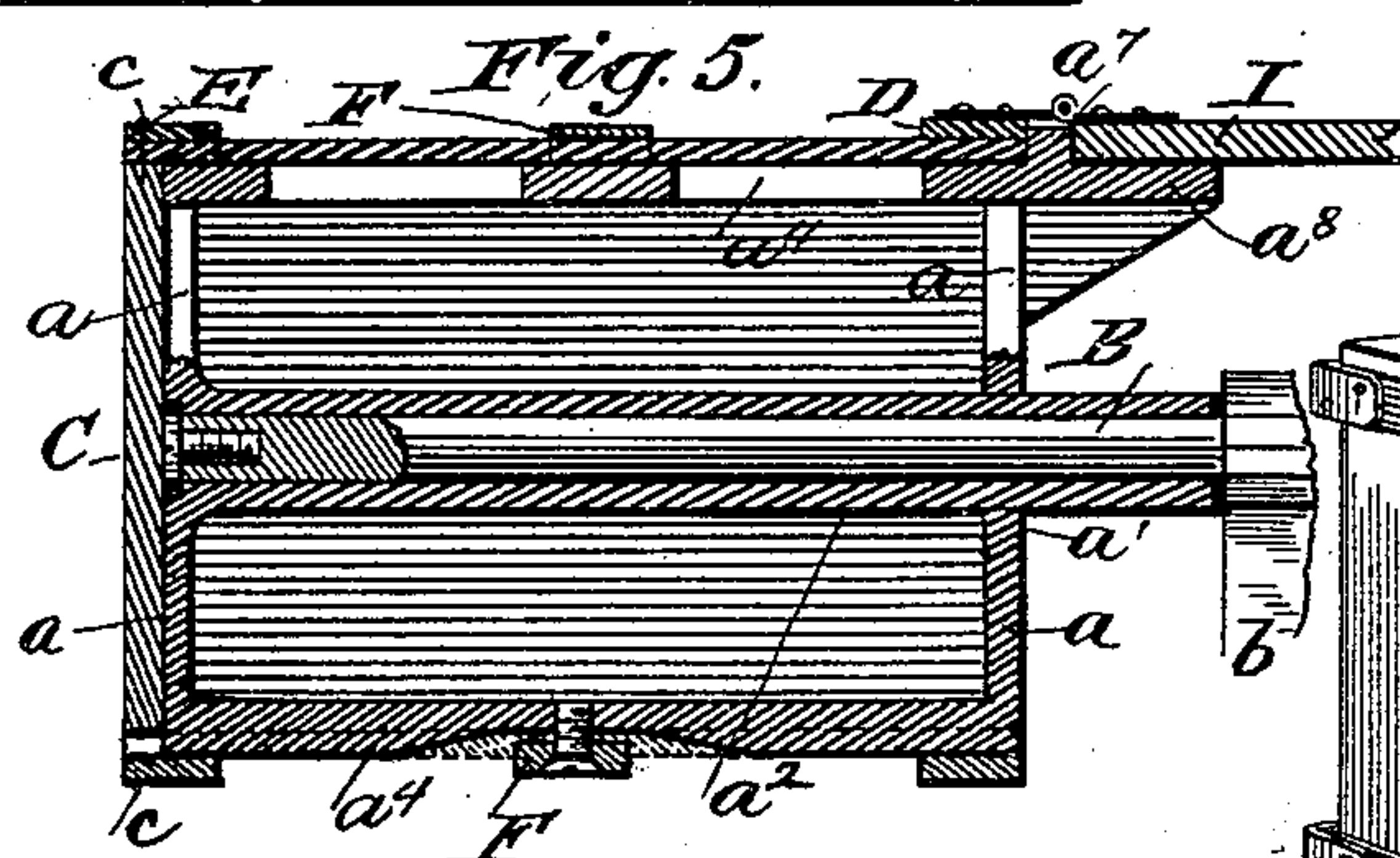
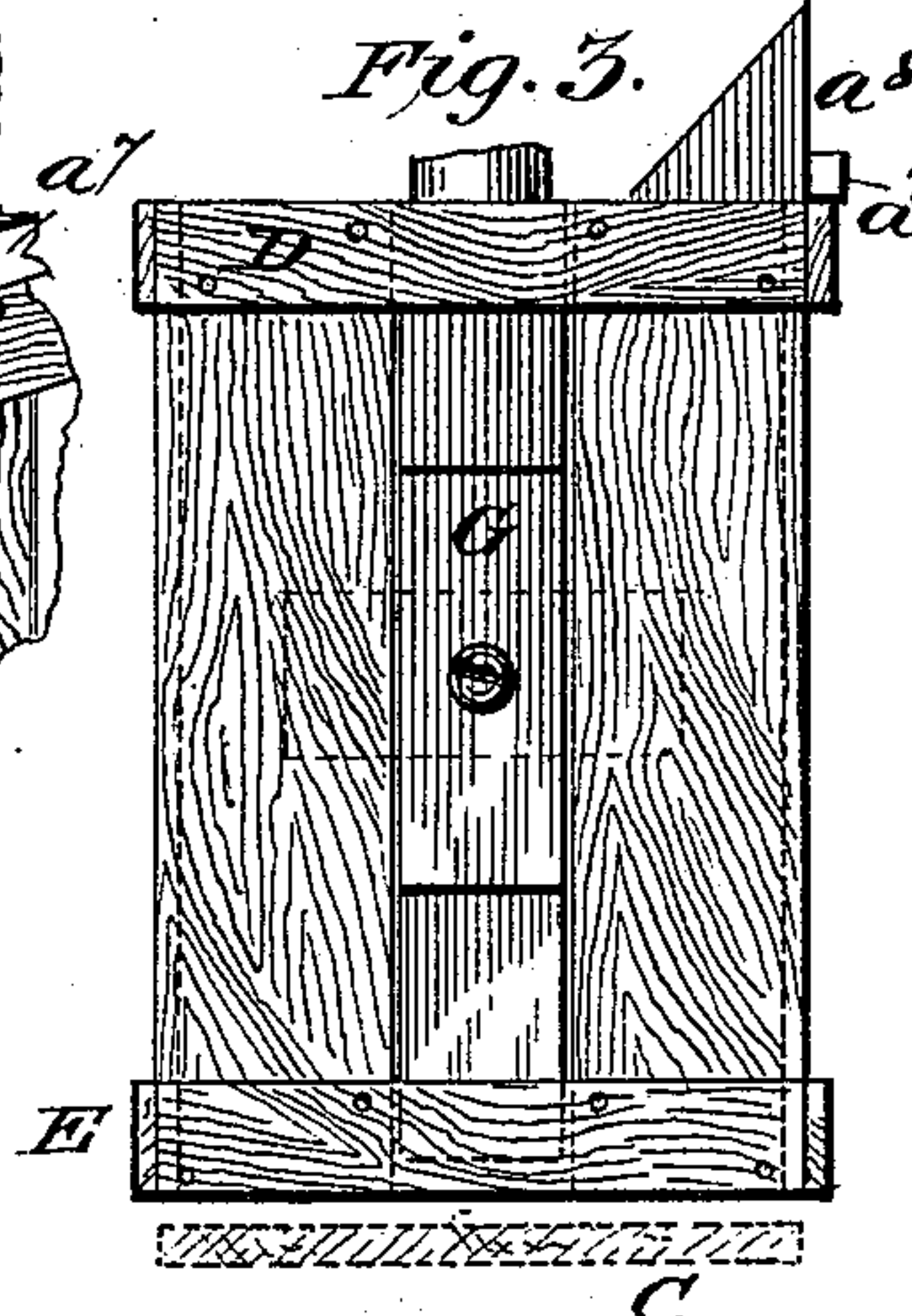
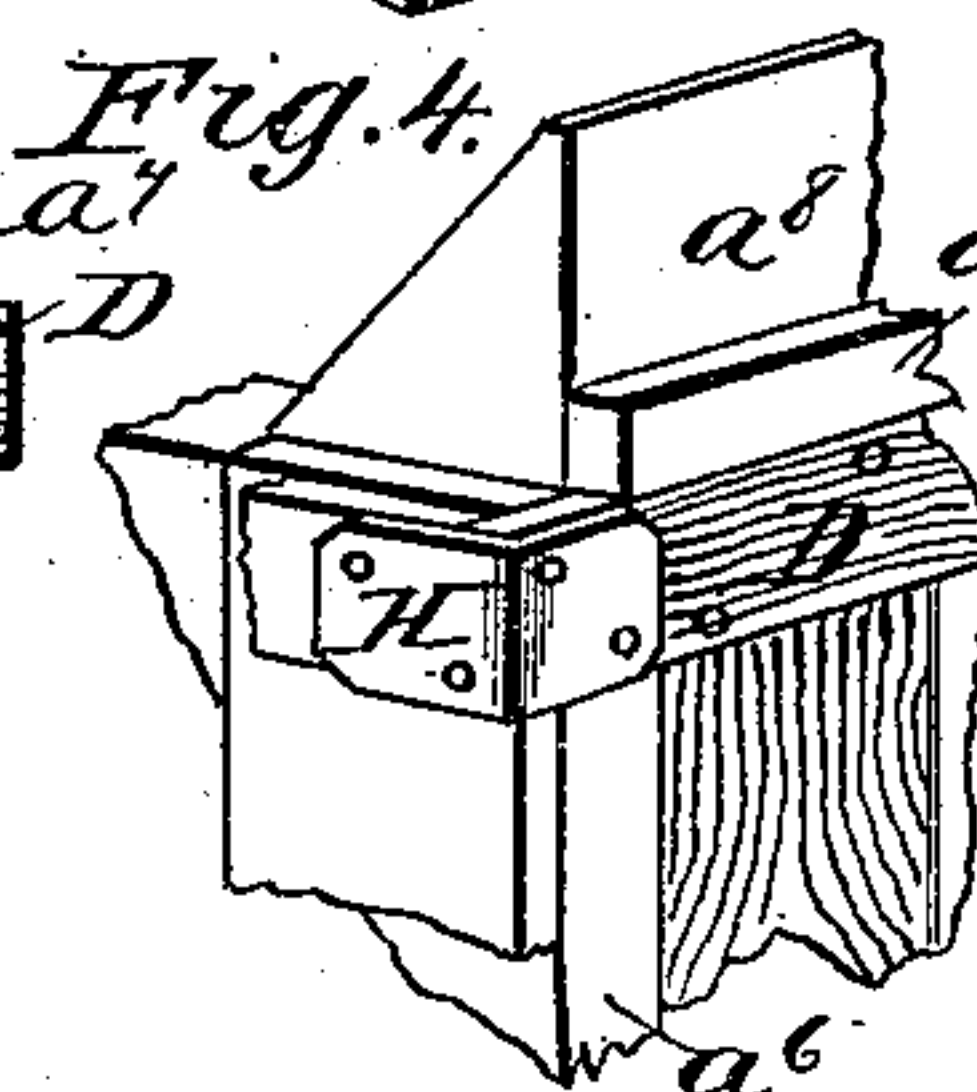
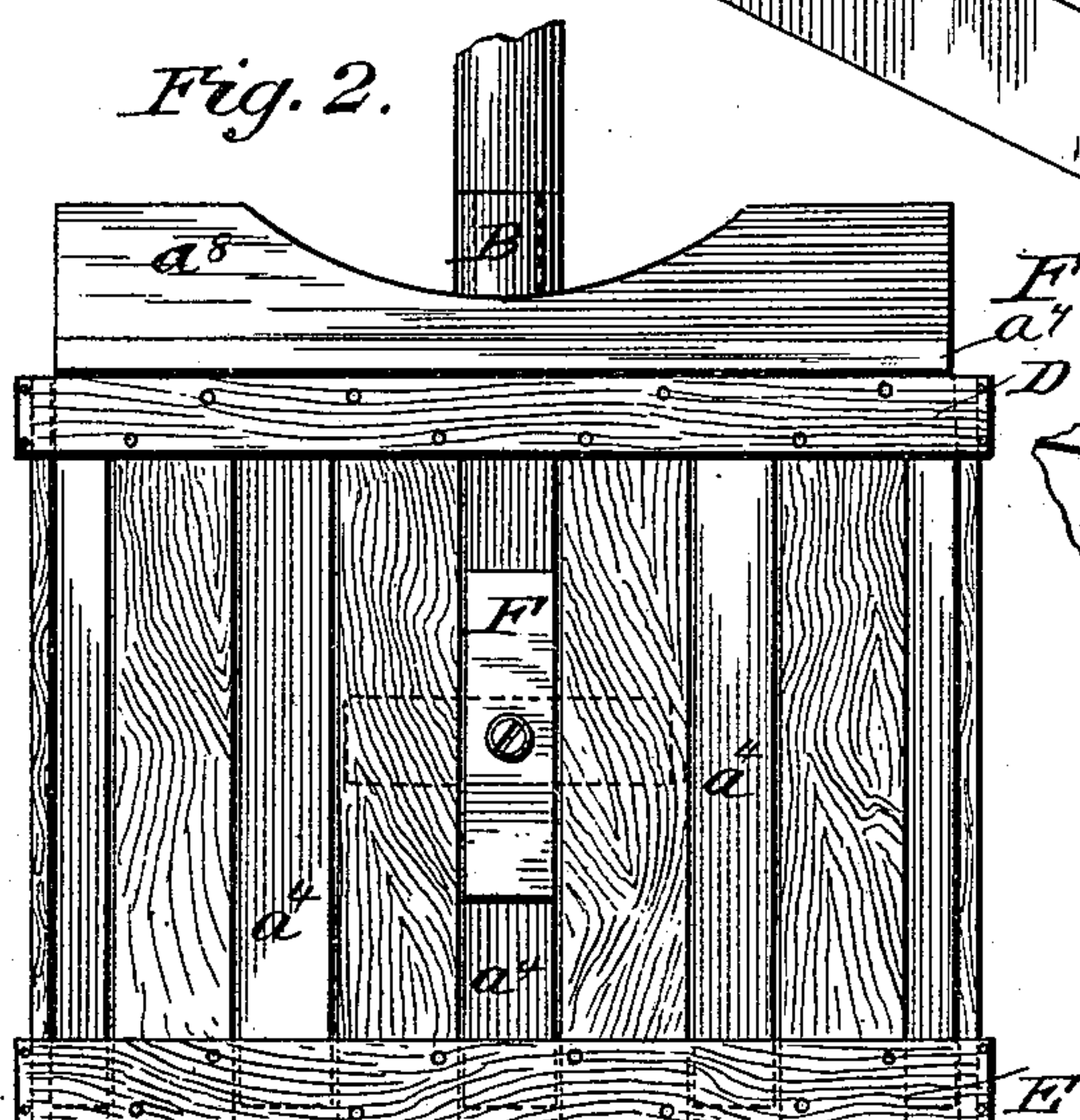
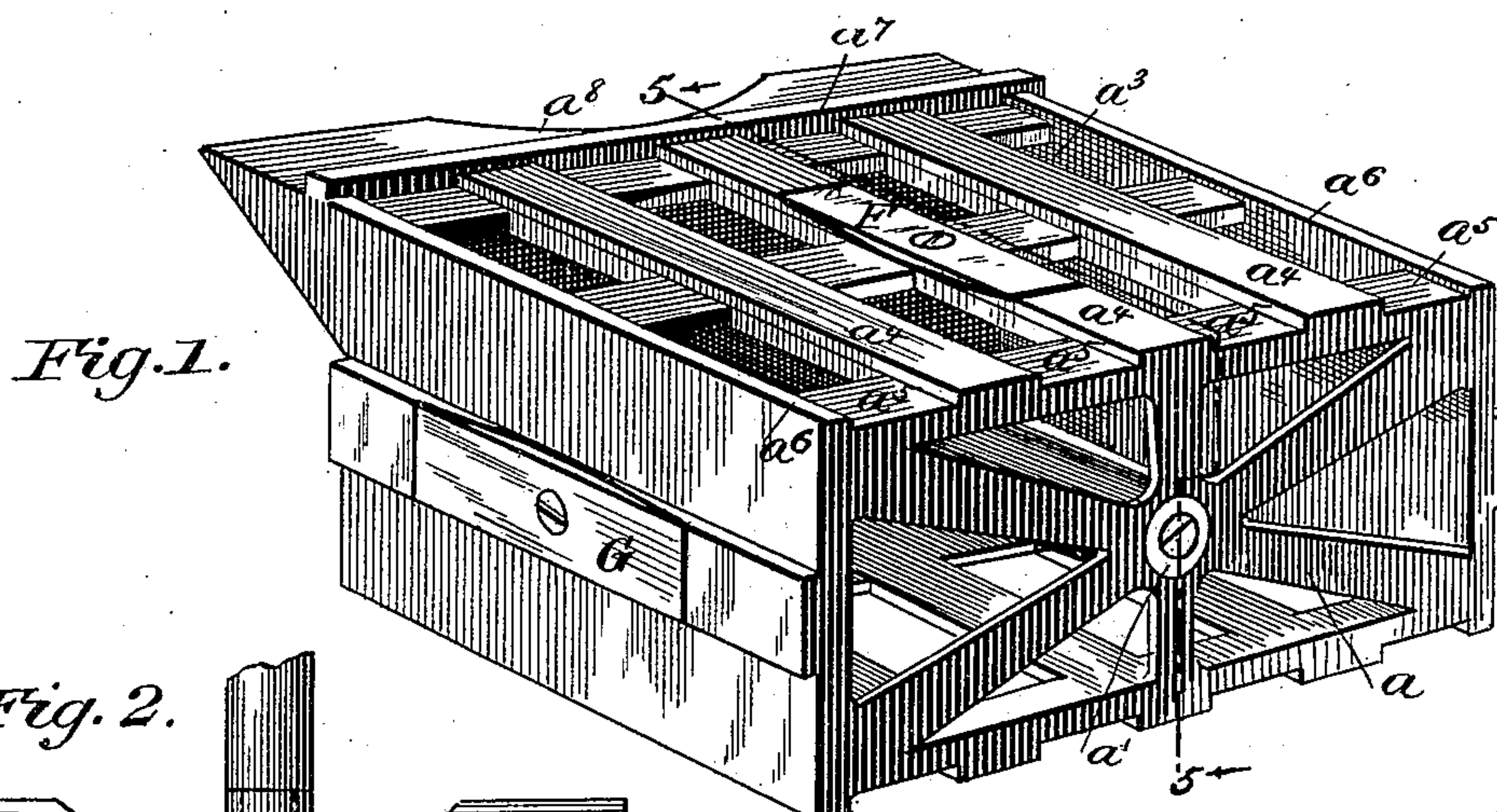


(No Model.)

C. S. ANDREWS.
FORMER FOR BERRY CRATES.

No. 467,026.

Patented Jan. 12, 1892.



WITNESSES:

WITNESSES:
Fred G. Dieterich
H. J. Robinson

INVENTOR:

Charles S. Andrews

BY

ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES S. ANDREWS, OF WILMINGTON, NORTH CAROLINA.

FORMER FOR BERRY-CRATES.

SPECIFICATION forming part of Letters Patent No. 467,026, dated January 12, 1892.

Application filed April 15, 1891. Serial No. 389,108. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. ANDREWS, residing at Wilmington, in the county of New Hanover and State of North Carolina, have
5 invented a certain new and useful Former for Berry-Crates, of which the following is a specification.

My invention has for its object to provide
10 a suitably-constructed former which can be employed in the manufacture of berry-crates, and which will serve to facilitate the construction of said crates whereby they can be quickly and more effectually made.

To this end my invention consists in the
15 peculiar combination and novel arrangement of the several parts, all of which will hereinafter be fully explained, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

20 Figure 1 is a perspective view of my improved berry-crate former. Fig. 2 is a top plan view thereof showing the sides and ends of the crate-body framed thereon. Fig. 3 is an end view of the same, the bottom of the
25 crate being shown about to be slipped in position. Fig. 4 is a detail view, hereinafter referred to. Fig. 5 is a longitudinal section of the former on the line 5 5, Fig. 1, with the crate-frame completed thereon, and illustrating the manner in which the lid is hinged to
30 said frame; and Fig. 6 is a perspective view of a berry-crate constructed upon my improved former.

In the accompanying drawings the former
35 consists of a rectangular skeleton frame, formed, preferably, of cast metal, in the end walls a of which are formed bearings a' , which are connected by a sleeve a^2 , in which fits the end of an operating-shaft B, mounted in a
40 bearing or bearings b , and which may be revolved by hand or power, said former being arranged with its longitudinal axis horizontal and to turn with said shaft. The upper
45 face a^3 of the former is formed with a series of rib-like projections a^4 , between which a series of seats a^5 are formed, in which the side slats of the crate are laid.

By reference to Fig. 1 of the drawings it will
50 be observed that four seats or recesses a^5 are provided, the outer ends of the former being projected, as at a^6 , to hold the outer two side slats in place, and at the upper ends of the seats

a^5 a transverse ledge or rib a^7 is provided, which serves as a gage, against which the upper ends of the side slats abut when placed in
55 position, such slats serving as a guide for the end slats D as they are put upon the former. In practice the former is made of such length that the slats when placed on the former in the manner clearly shown in Fig. 5 will have
60 their lower ends project beyond the outer end a of the former, so as to admit of the quick insertion of the solid bottom C, which is slipped in between the overlapping ends and side slats and secured thereto by the
65 brads c .

In the practical construction of the crates the side and end slats are first made in sections joined by the transverse upper and lower strips D and E in the usual way, and
70 one of such side sections is laid upon the upper face of the former, its upper end abutting against the gage-rib a^7 , as stated. Such section is then held on the former by means of a turn-buckle or other suitable device F.
75 The former is then given a turn and one of its ends is brought to the top, and an end section is placed thereon, such section being gaged by the previously-clamped side section, and such end section held by the turn-buckle
80 G. The former is again turned and the opposite side section placed thereon in a similar manner and then again turned and the opposite end section placed in position. The sheet-metal corner-cleats H are then nailed
85 to the meeting edges of the transverse strips, the nails as they pass through the said strips and the slats being clinched by striking the metal-former. After the sides, ends, and bottom of the crate have been formed, as stated,
90 the lid or cover is secured thereto in the manner most clearly shown in Fig. 5 of the drawings, from which it will be observed that the gage-strip a^7 also serves to gage the manner in which the cover I is to be hinged to the
95 side section, so as to permit of its folding down properly when closed and locked in place, an outwardly-extending flange a^8 being formed on the upper face of the former, which forms a seat or rest for the lid-section
100 as it is held in position for connection to the side section of the crate.

While it may be preferable to construct the side and end sections as stated before they

are placed upon the former, it is manifest that the entire crate may be constructed upon the former A and the several longitudinal and transverse slats nailed together upon the
5 former, the brads or nails being clinched as they engage such former.

My invention is exceedingly simple, can be manufactured at a small cost, and by its use I can construct crates very much quicker than
10 by the ordinary method.

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

1. A crate-former consisting of a crate-shaped revoluble body portion, the top, bottom, and sides thereof provided with seats to receive the side and end sections of the crate, and means for holding such sections to the said body portion, substantially as and for the
20 purpose described.

2. The herein-described crate-former, consisting of a crate-shaped skeleton metallic frame formed with a hollow spindle, whereby said body is adapted to be mounted on and
25 revolved by a shaft, seats or recesses formed in the outer faces of the body, adapted to

form seats for the slat-sections of the crate, and means for holding said sections to the said body, substantially as and for the purpose described. 30

3. A crate-former comprising a crate-shaped body portion, a shaft for supporting and turning said body, a series of seats or recesses formed in the outer faces thereof, and a transverse gage-strip arranged at the inner ends of
35 the seats in one face thereof, substantially as and for the purpose described.

4. The combination of the shaft B, the crate-shaped body A, mounted thereon, formed with a series of spaced recesses or seats in their
40 outer faces, one of said faces formed into an extension, as at a^8 , a transverse ledge or gage strip a^7 , arranged at the inner ends of the seats on the extended face, and locking devices on the outer faces for holding the crate-
45 sections to the former, all arranged substantially as and for the purpose described.

CHARLES S. ANDREWS.

Witnesses:

H. M. FOURD,

WM. K. WALKER.