

(Model.)

A. M. KANTERS.

FASCINE BINDER.

Patented Mar. 3, 1885.

No. 313,340.

Fig. 2.

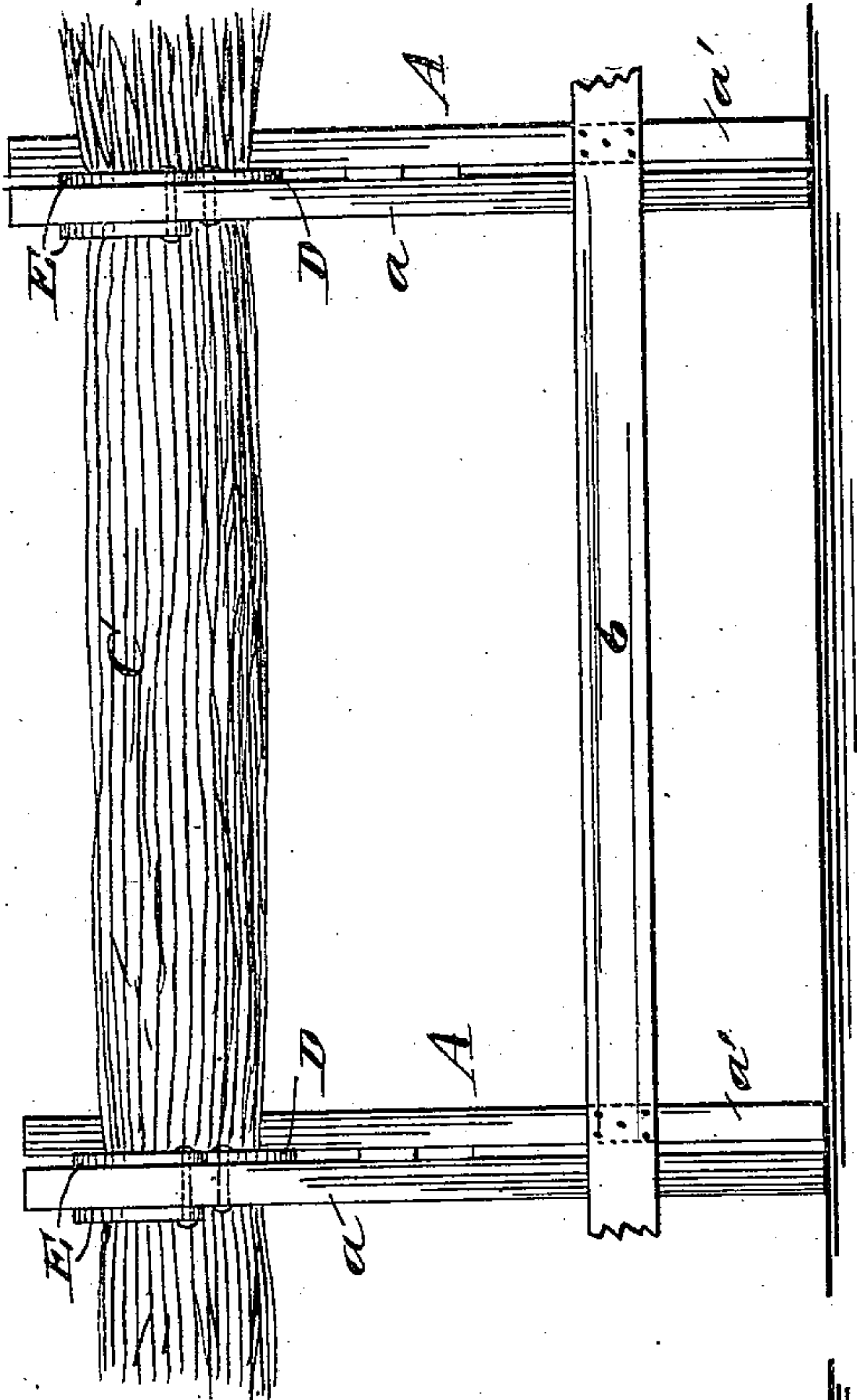


Fig. 3.

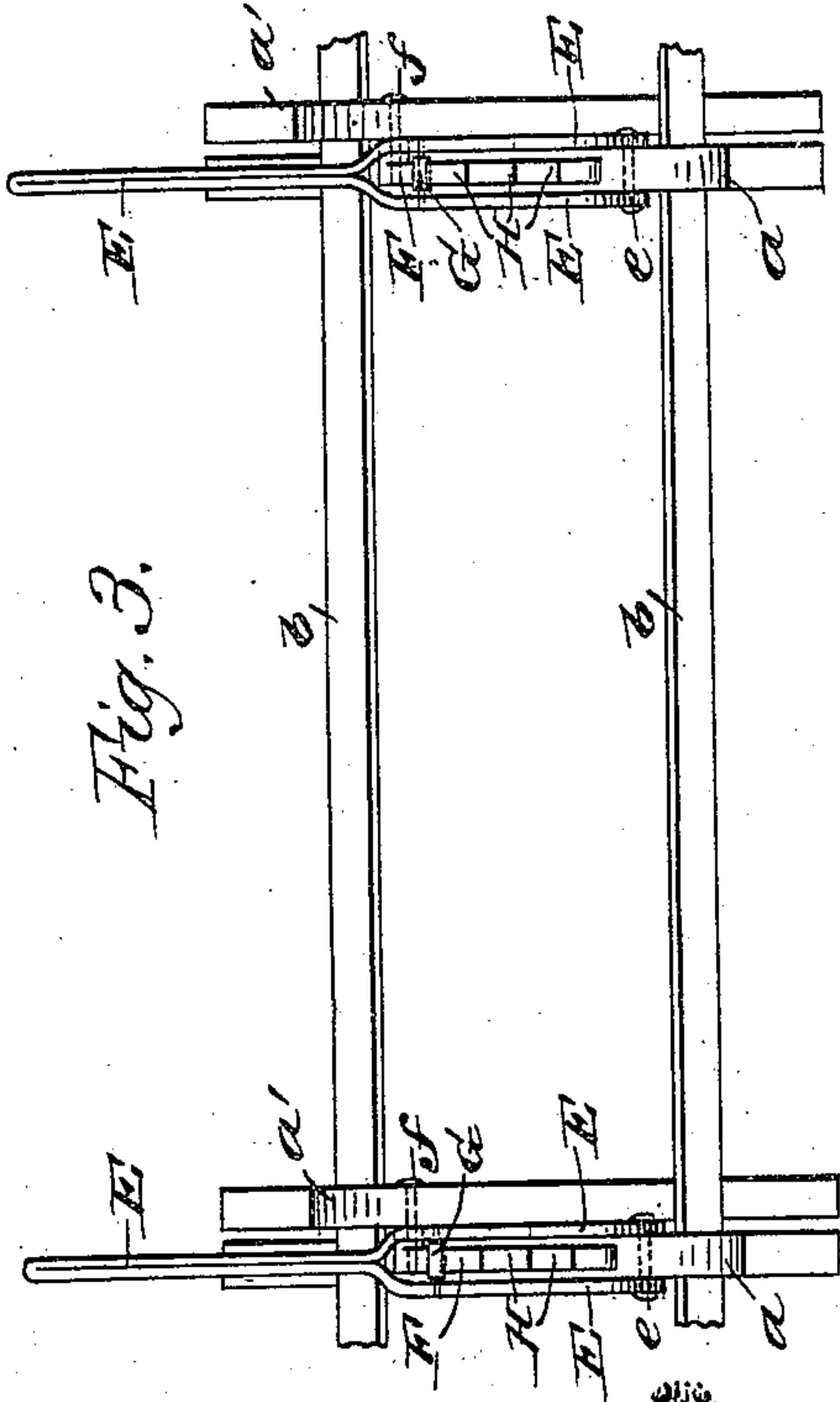


Fig. 1.

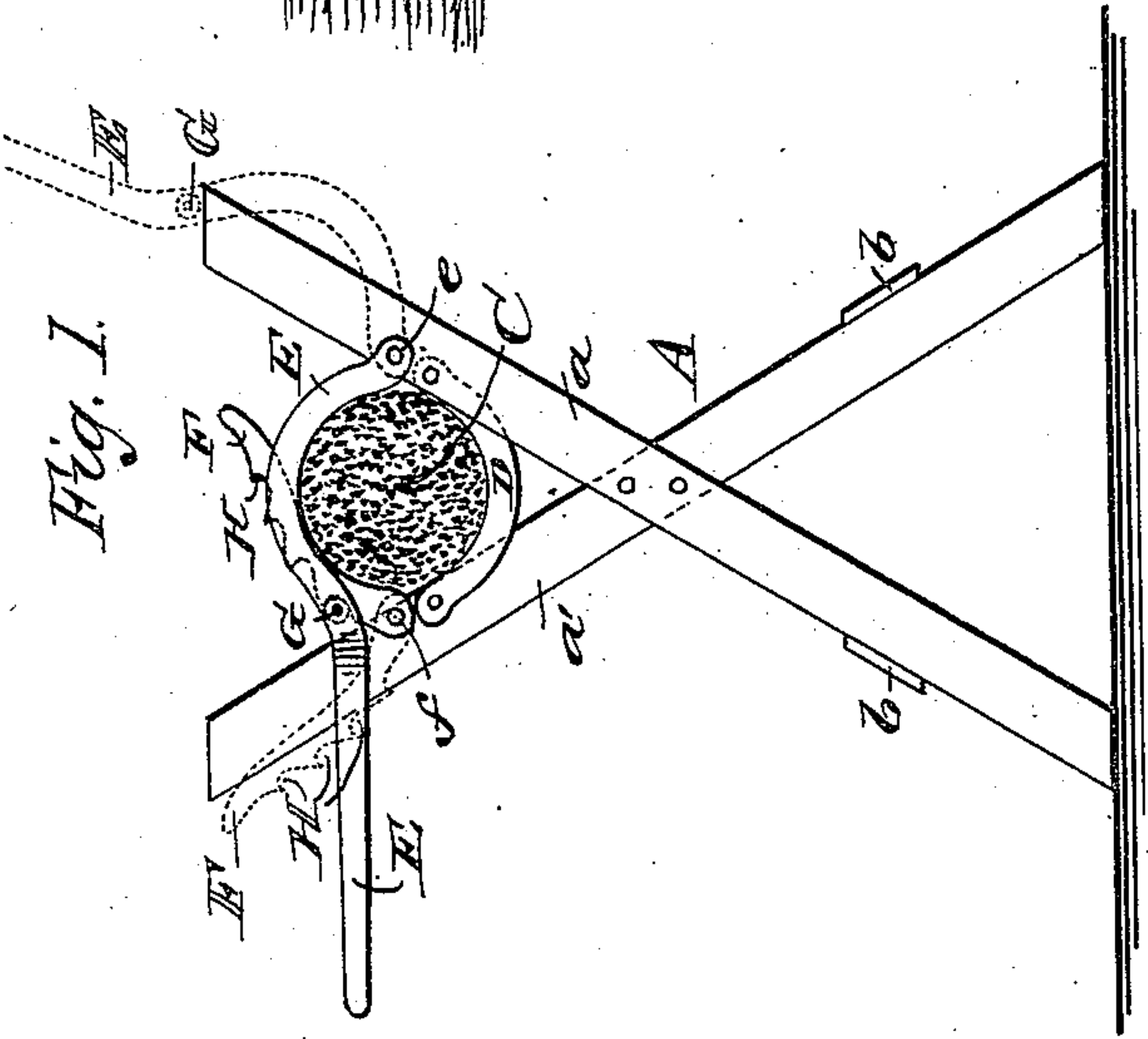
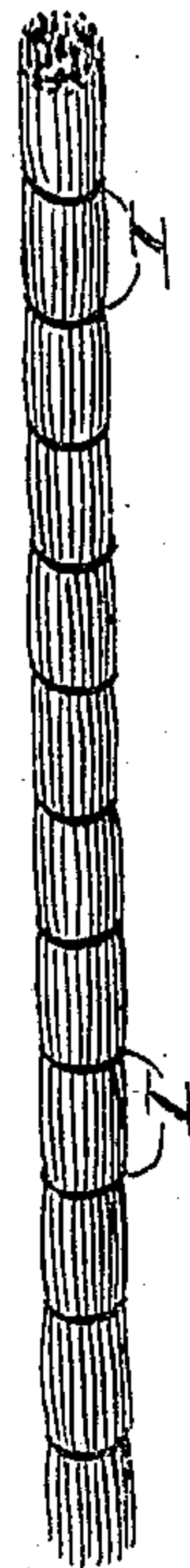


Fig. 5.



Fig. 4.



WITNESSES:

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ABRAHAM M. KANTERS, OF BUFFALO, NEW YORK.

FASCINE-BINDER.

SPECIFICATION forming part of Letters Patent No. 313,340, dated March 3, 1885.

Application filed December 31, 1884. (Model.)

To all whom it may concern:

Be it known that I, ABRAHAM M. KANTERS, of Buffalo, in the county of Erie and State of New York, have invented a new and
5 Improved Saucisson and Fascine Binder, of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple and efficient apparatus by which saucissons or brush-wood ropes and fascine or
10 tapering brush-wood bundles, used in the construction of jetties, dams, breakwaters, or other engineering works, may be compressed and bound with economy of time and labor.

15 The invention consists in a saucisson and fascine binder comprising a series of horses or supports provided with cross-bars to support the brush-wood, and with pivoted clamping-levers having pins or rollers adapted to
20 enter and lock into notches in the upper edges of clamping-bars, which are pivoted at the opposite sides of the horses, and are pressed down on the brush by the levers, all as hereinafter fully described and claimed.

25 Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an end view of my improved
30 saucisson and fascine binder as in use. Fig. 2 is a rear side view of the binder, showing a few of the horses with the brush-wood thereon. Fig. 3 is a plan view of the parts of the binder shown in Fig. 2, with the brush-wood removed. Fig. 4 is a perspective view of part of
35 a saucisson, and Fig. 5 is a perspective view of a fascine.

I construct the saucisson and fascine binder with a series of horses, A, made preferably
40 of crossed bars *a a'* of wood connected by the bars or strips *b b*, so as to stand about two feet (more or less) apart. A sufficient number of the horses will be used to make a structure on which the brush-wood C may be supported, so as to bind saucissons (shown partly
45 in Fig. 4) of any desired length—say from fifty to one hundred feet long, (more or less,) as may be required—and to serve, also, to support the fine brush-wood, which is to be bound
50 in tapering bundles to make fascines about

nine feet long, (more or less,) as shown in Fig. 5.

The brush-wood binding or clamping devices to which my invention particularly relates consists each of three metal pieces attached to the horses A, above the crotch, viz:
55 A lower cross-bar, D, fixed at opposite ends to the opposite bars *a a'* of the horse, a clamping-lever, E, pivoted at *e* to the bar *a*, and a clamping-bar, F, pivoted at *f* to the opposite bar *a'*. I make the lever E preferably in a forked construction for some distance from its pivot *e*, so that the opposite clamp-bar F may be passed between the side plates or
60 arms of the forked part of the lever, which is provided with a cross-pin on which a roller, G, is placed loosely, and in such position that it may ride over the back edge of the clamp-bar F, and enter notches H formed in the
65 clamp-bar when the binding device is in use.

The operation is as follows: In forming saucissons the clamping lever and bar E F are swung back on their pivots, as in dotted lines, Fig. 1, and the brush-wood is laid along the
70 range of horses A upon their cross-bars D, the brush being carefully spread and overlapped, and the lever and bar E F will then be swung toward each other, so that the bar F passes under the roller G, and as the lever E is forced
75 down the roller will enter the successive notches H as the brush is compressed gradually along its entire length, and held, as in Fig. 1, so it may be bound by rope or wire
80 bands I in a compact saucisson or brush-wood rope.

As best seen in Fig. 1, the clamping edges or faces of the parts D E F are formed so as to bind a saucisson having a cylindrical cross-section, which is its preferred shape; but for
85 binding fascines (shown in Fig. 5) the parts D E F will be formed to give an oval or oblong cross-sectional shape to the fascines, in forming which the fine brush-wood will be laid on the bars D butts one way, and will be compressed, and then bound by a couple of heavy bands, J, placed, respectively, one foot and three and
90 a half feet from the butt, so as to form a tapering bundle of brush-wood.

The clamping devices of the binder may be shaped to give any desired cross-sectional form
100

to the saucissons and fascines which are to be used in the construction of jetties, dams, breakwaters, or for shore protection and in other engineering operations.

5 The roller G prevents excessive wear of the teeth forming the notches H in the clamp-bar F, and said teeth will be hardened for increased durability.

10 By the use of my improved binder the saucissons and fascines may be made more quickly, compactly, and easily than when the brush is compressed by the bands, and with the arms, knees, and hands alone, or by ropes attached at one end to the horses and at the other end
15 to a foot-lever or treadle, and my binders insure a quite uniform cross-sectional shape of saucissons and fascines, which it is difficult to secure by other methods of construction.

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

1. A saucisson and fascine binder comprising a series of horses having bars D to sup-

port the brush, and clamping devices consisting of a lever, E, pivoted to one side of the horse, and a clamping-bar, F, pivoted to the opposite side of the horse, and provided with notches H in its upper edge, and said lever E having a pin or stud adapted to work over the bar F and enter and lock into its notches, substantially as herein set forth. 25 30

2. The combination, in a saucisson and fascine binder, of a series of horses A, having brush-supporting bars D, the clamping-levers E, pivoted at *e* to one side bar of the horses, and forked beyond their pivots, and provided with rollers G, and the clamping-bars F, pivoted at *f* to the opposite side bars of the horses, and provided with notches H, into which the rollers G may enter and lock, substantially as herein set forth. 35 40

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Witnesses:

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