

(No Model.)

J. S. PETERMAN, Jr.
CUTTER FOR FODDER, STRAW, &c.

No. 420,734.

Patented Feb. 4, 1890.

Fig. 1.

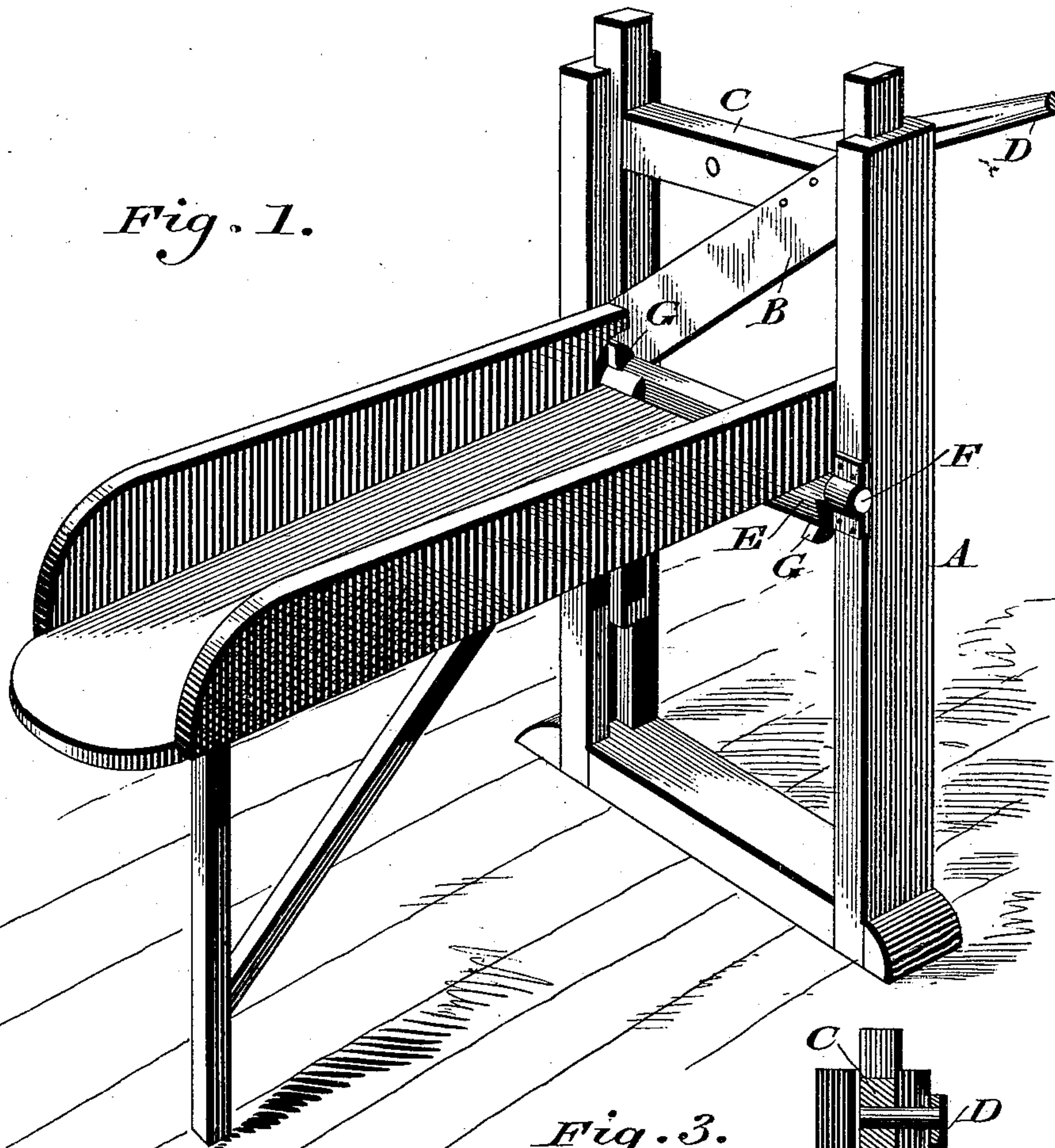


Fig. 2.

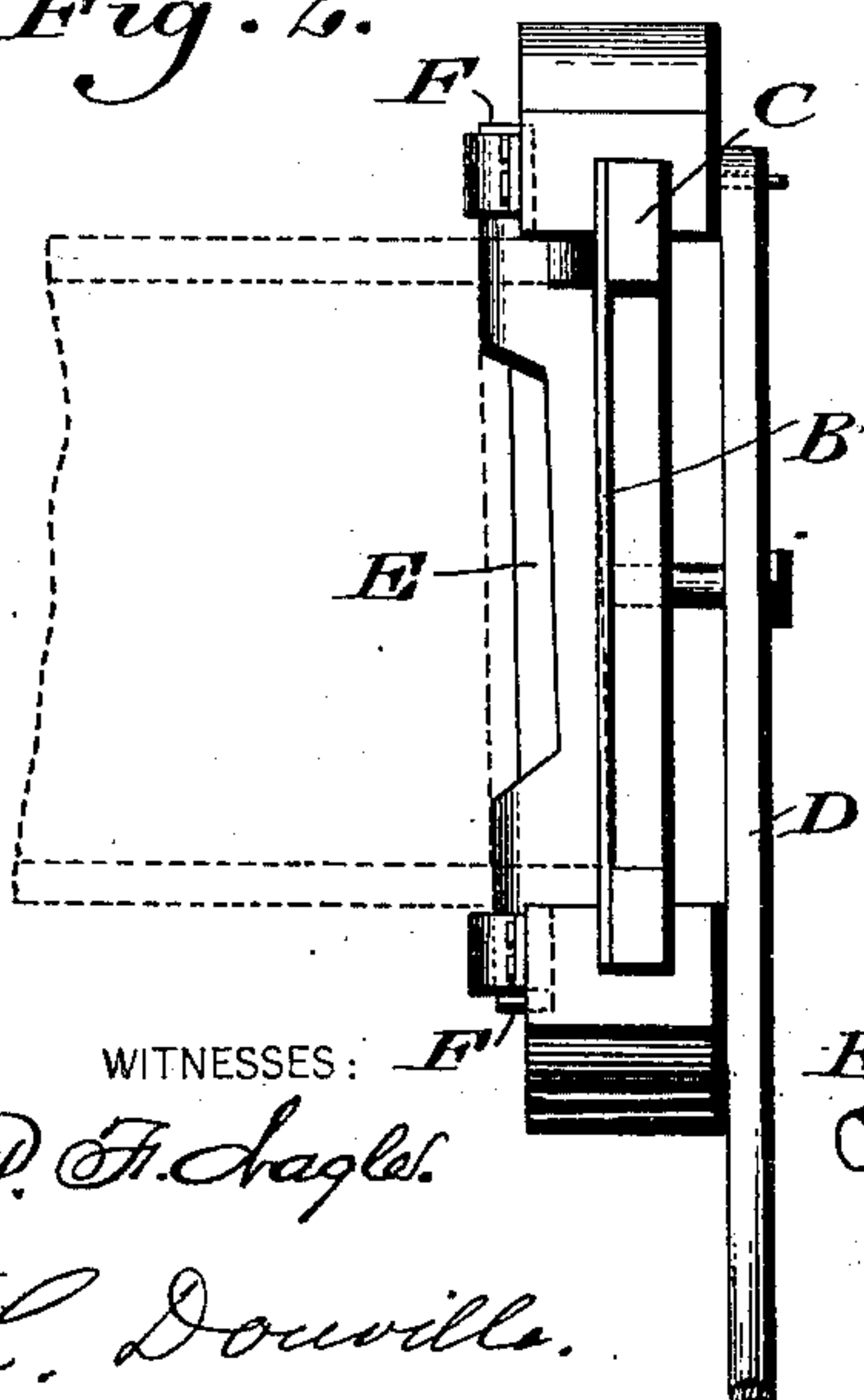


Fig. 3.

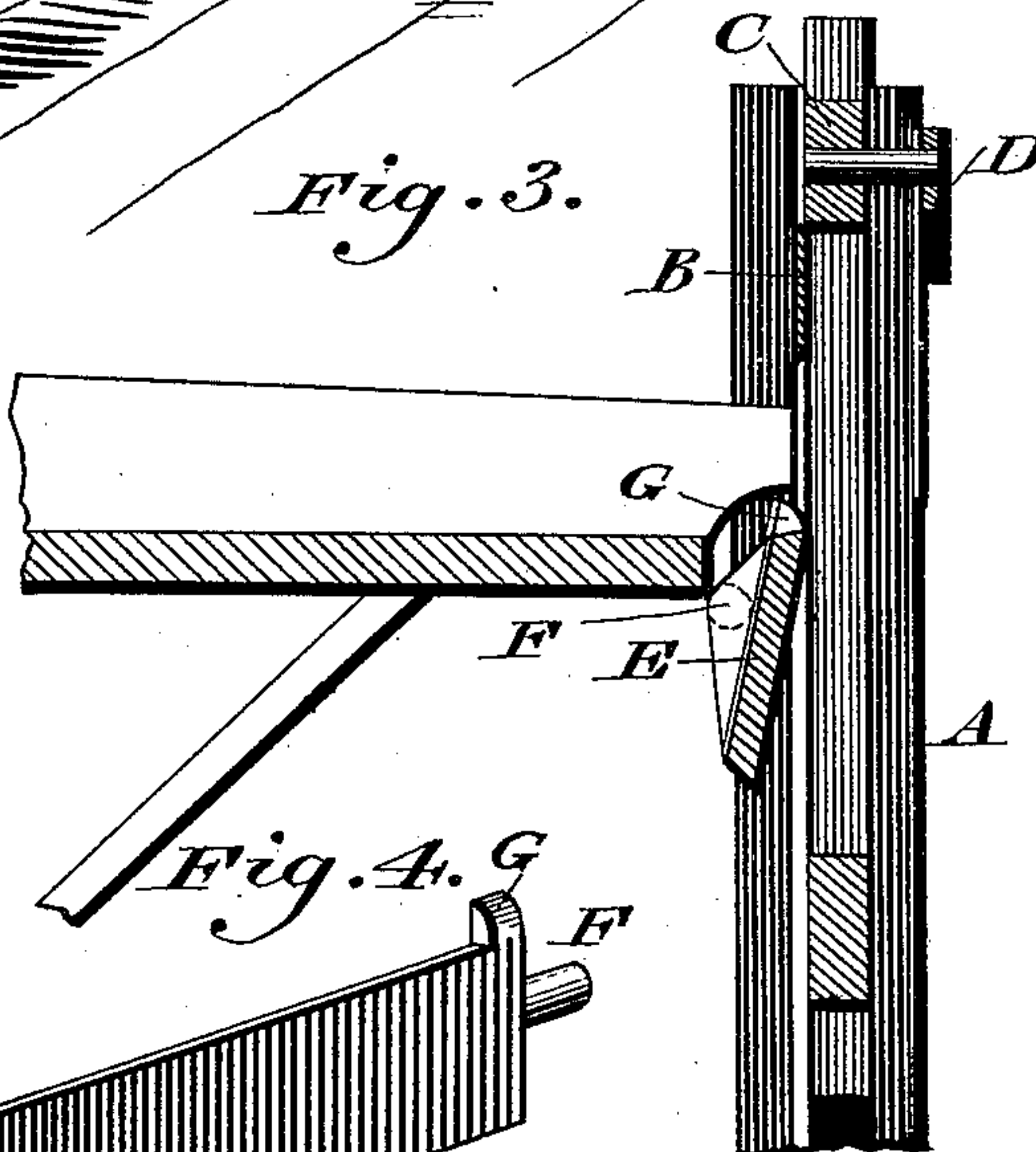
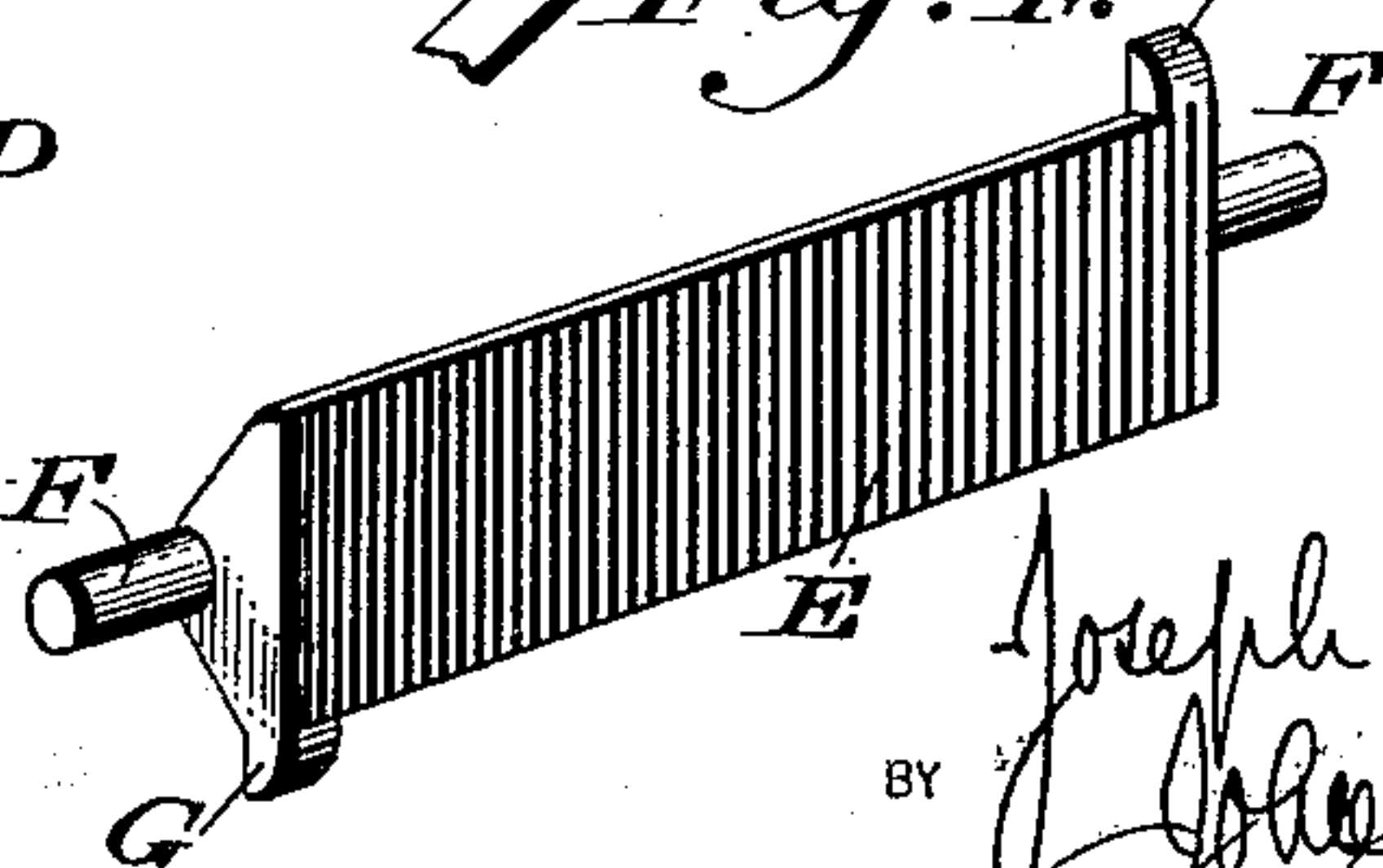


Fig. 4.



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CUTTER FOR FODDER, STRAW, &c.

SPECIFICATION forming part of Letters Patent No. 420,734, dated February 4, 1890.

Application filed June 15, 1889. Serial No. 314,462. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH S. PETERMAN, Jr., a citizen of the United States, residing at Flourtown, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Improvement in Cutters for Fodder, Straw, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a cutter for fodder, straw, &c., having a rocking-bed knife, the same presenting its cutting-edge to the rising and falling knife on the descent of the latter, whereby the cutting is easily accomplished, other advantages being presented, as will be hereinafter fully set forth.

Figure 1 represents a perspective view of a cutter embodying my invention. Fig. 2 represents a top or plan view of a portion thereof. Fig. 3 represents a vertical section of a portion on an enlarged scale. Fig. 4 represents a perspective view of the bed-knife.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the frame of the cutter for fodder, straw, &c.

B designates a rising and falling knife, the same being secured in an oblique or slanting direction to a sliding frame C, which is guided in the frame A and operated by a suitable lever D.

E designates the bed-knife, the same having journals F, which are mounted on the frame A, so as to be capable of rocking in a direction to and from the knife B.

It will be seen that when the fodder, &c., to be cut is fed over the bed-knife the knife B is operated, and as it descends it advances against the fodder, &c., and cuts the same, the bed-knife, owing to the pressure exerted on it from above, having its cutting-edge forced or turned toward the cutting-edge of the blade, so that the fodder, &c., cannot escape between the two cutting-edges, and the cutting action is clean, rapid, and easy. The

bed-knife is set in position in an oblique line in the transverse direction or obliquely to the knife B, (see Fig. 2,) so that as the knife B descends the cutting-edge of the bed-knife is gradually presented to the edge of said knife B, and thus there is an effective shearing or draw-cut action of the two knives or blades. When the knife B returns, the bed-knife is free to rotate in the reversed direction to that during the cutting operation, so that there is but little, if any, frictional contact of the cutting-edges of the two knives.

In order to limit the rotation of the bed-knife in either direction, shoulders G are formed on said knife, the same projecting in opposite directions and being adapted to come in contact with a proper part of the frame, thus acting as stops, the effect of which is evident.

The upper and lower edges of the bed-knife are sharpened as cutters, so that either edge may be placed in operative position, the knife thus being reversible.

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

1. A cutter for fodder, straw, &c., having the frame A, a vertically-sliding frame provided with a knife having an operating-lever, and an oscillating-bed knife having its axis at an angle to the plane of motion of the sliding frame, said parts being combined substantially as described.

2. A cutter for fodder, straw, &c., having the frame A, the vertically-sliding frame C, with the slanting knife B connected therewith, and an oscillating-bed knife provided with shoulders forming stops and having its axis at an angle to the plane of motion of the sliding frame and knife B, said parts being combined substantially as described.

JOSEPH S. PETERMAN, JR.

Witnesses:

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