

(No Model.)

J. A. BROOKS.
STRAW CUTTER.

No. 284,175.

Patented Sept. 4, 1883.

FIG. 2

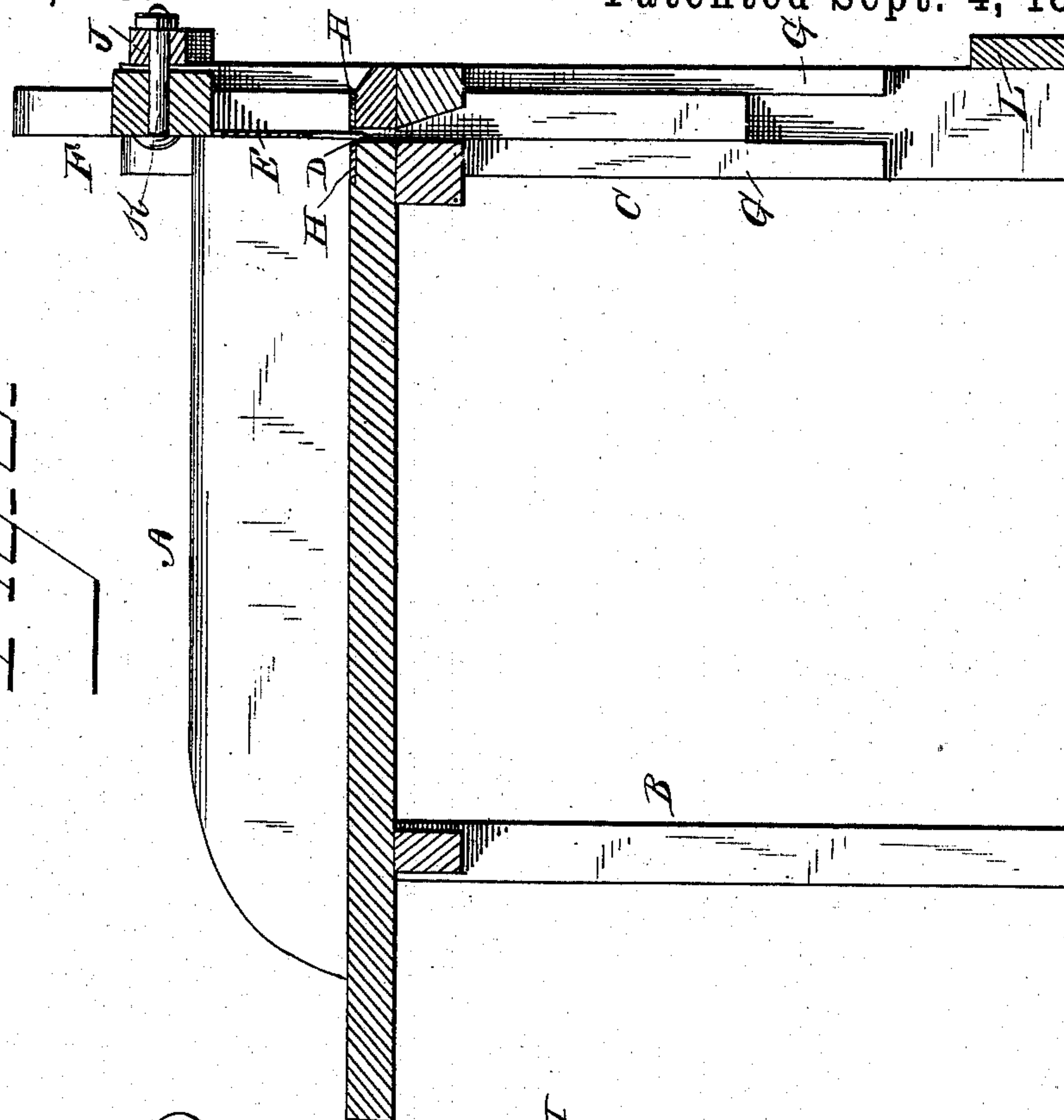
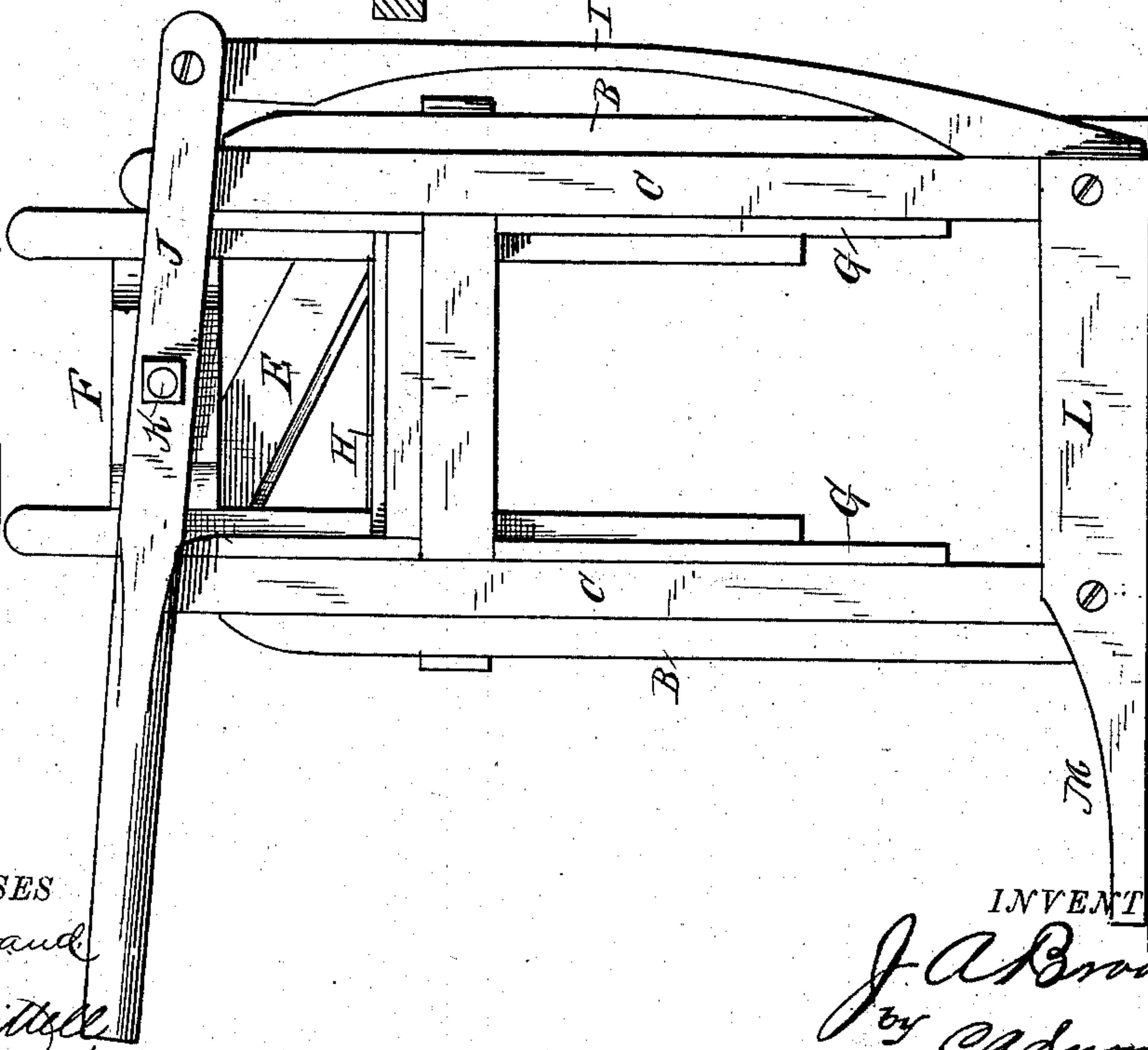


FIG. 1



WITNESSES
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JOSEPH A. BROOKS, OF DENMARK, TENNESSEE.

STRAW-CUTTER.

SPECIFICATION forming part of Letters Patent No. 284,175, dated September 4, 1883.

Application filed February 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. BROOKS, a citizen of the United States, residing at Denmark, in the county of Madison and State of Tennessee, have invented a new and useful Straw-Cutter, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a front view of my improved straw-cutter, and Fig. 2 is a longitudinal vertical sectional view of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to that class of straw-cutters in which the knife or cutter is mounted in and carried by a frame or sash moving vertically at the end of a trough or box; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents a suitably-constructed trough or box mounted upon legs B B and C C. The front end of box A has a slot, D, in which slides the knife or cutter E, which is mounted diagonally in a frame or sash, F, moving between suitable vertical guides, G, upon the inner sides of the front legs, C. Metal plates H are secured at both sides of the slot D to form bearings for the straw while it is being cut by the knife.

I is a spring secured near the lower end of one of the front legs, C, and extending upwardly and outwardly, as shown. To the upper end of said spring is pivoted a lever, J, which is also connected by a bolt or pivot, K, with the sash or frame F, which is operated by said lever. The lower ends of the front legs, C, are connected by a cross bar or brace, L, projecting at one end, so as to form a rest, M, upon which the operator may place his

foot, and thus steady the machine during operation.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The plates H form a solid rest for the straw, permitting the knife to pass through without slipping, even when dull. The spring I forms a movable fulcrum for the operating-lever, which renders the operation easy and satisfactory.

In machines of this class it has heretofore been common to connect the lever operating the cutting frame or sash with the frame of the machine by an intermediate pivoted fulcrum-bar. This I distinctly disclaim. The fulcrum-spring I, arranged as herein described, serves to draw the cutting-frame over against and hold it in contact with the guides at the rear side of the machine, thus relieving the said frame of the tendency to vibrate and become stuck between the guides, which has heretofore been so annoying in this class of machines.

I claim and desire to secure by Letters Patent of the United States—

The combination, in a straw-cutter, of the box A, mounted upon legs B C, the spring I, secured near the lower end of one of the front legs and extending upwardly and outwardly, the vertically-sliding cutter-frame F, and the operating-lever J, pivoted to said cutter-frame and having its fulcrum at the upper end of spring I, as set forth.

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

JOSEPH A. BROOKS.

Witnesses:

JNO. A. HADAWAY,
J. H. DAY.