

(No Model.)

E. T. COOK.
STALK CUTTER.

No. 281,460.

Patented July 17, 1883.

Fig. 1.

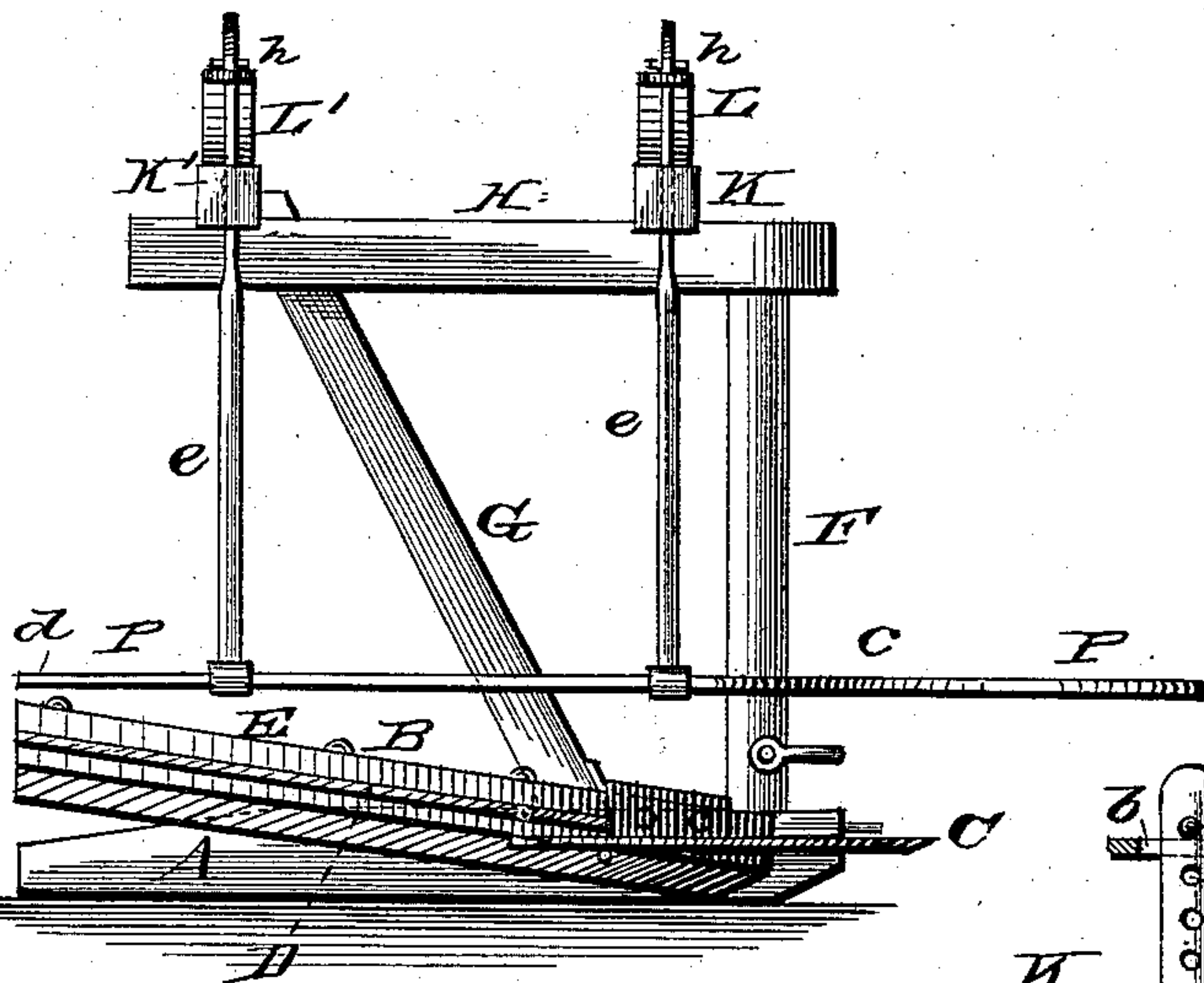


Fig. 3.

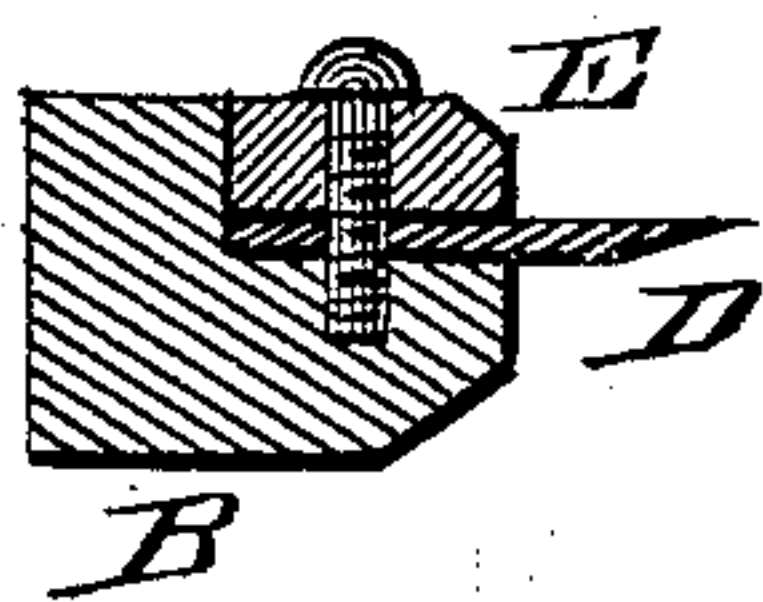


Fig. 2.

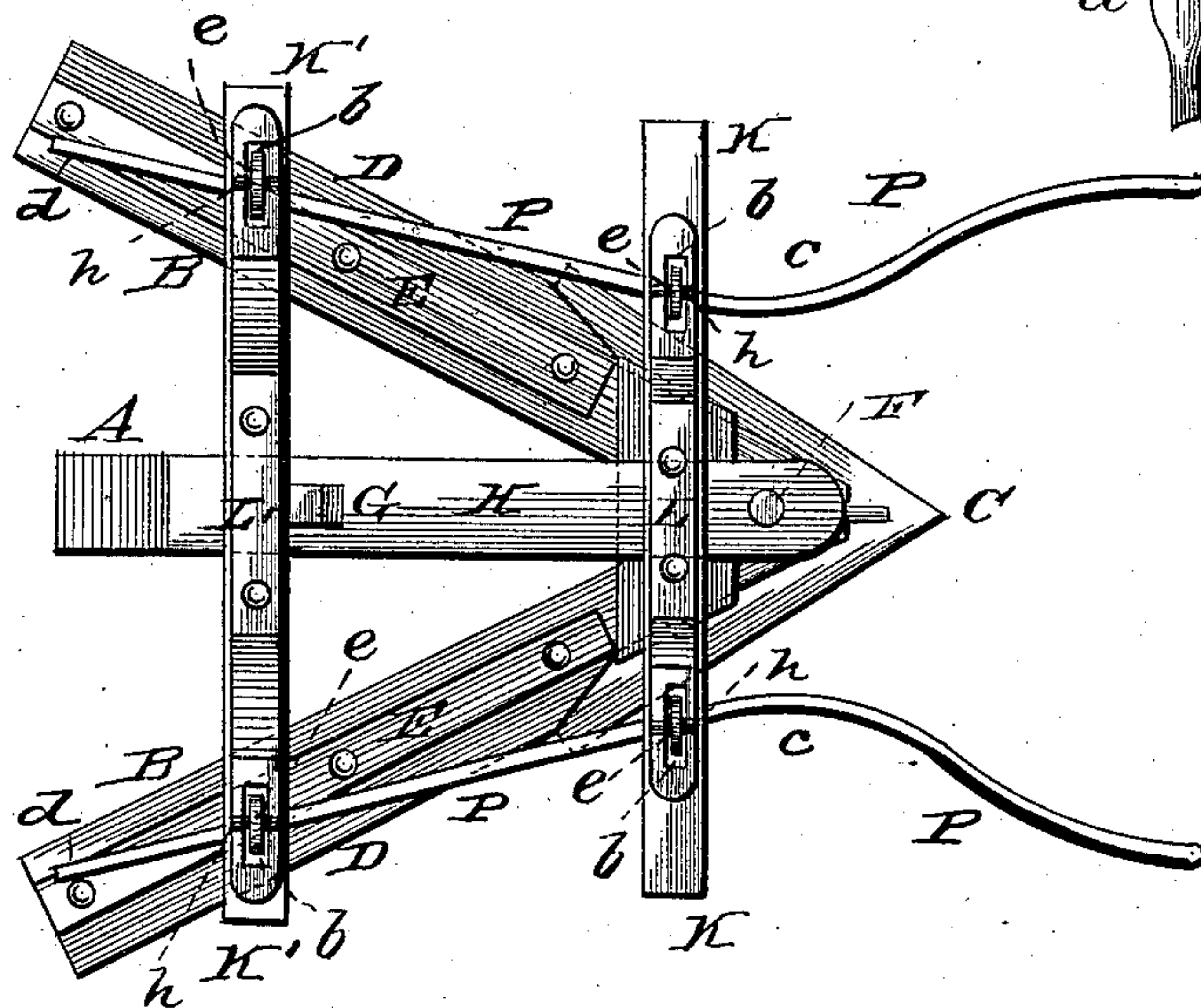
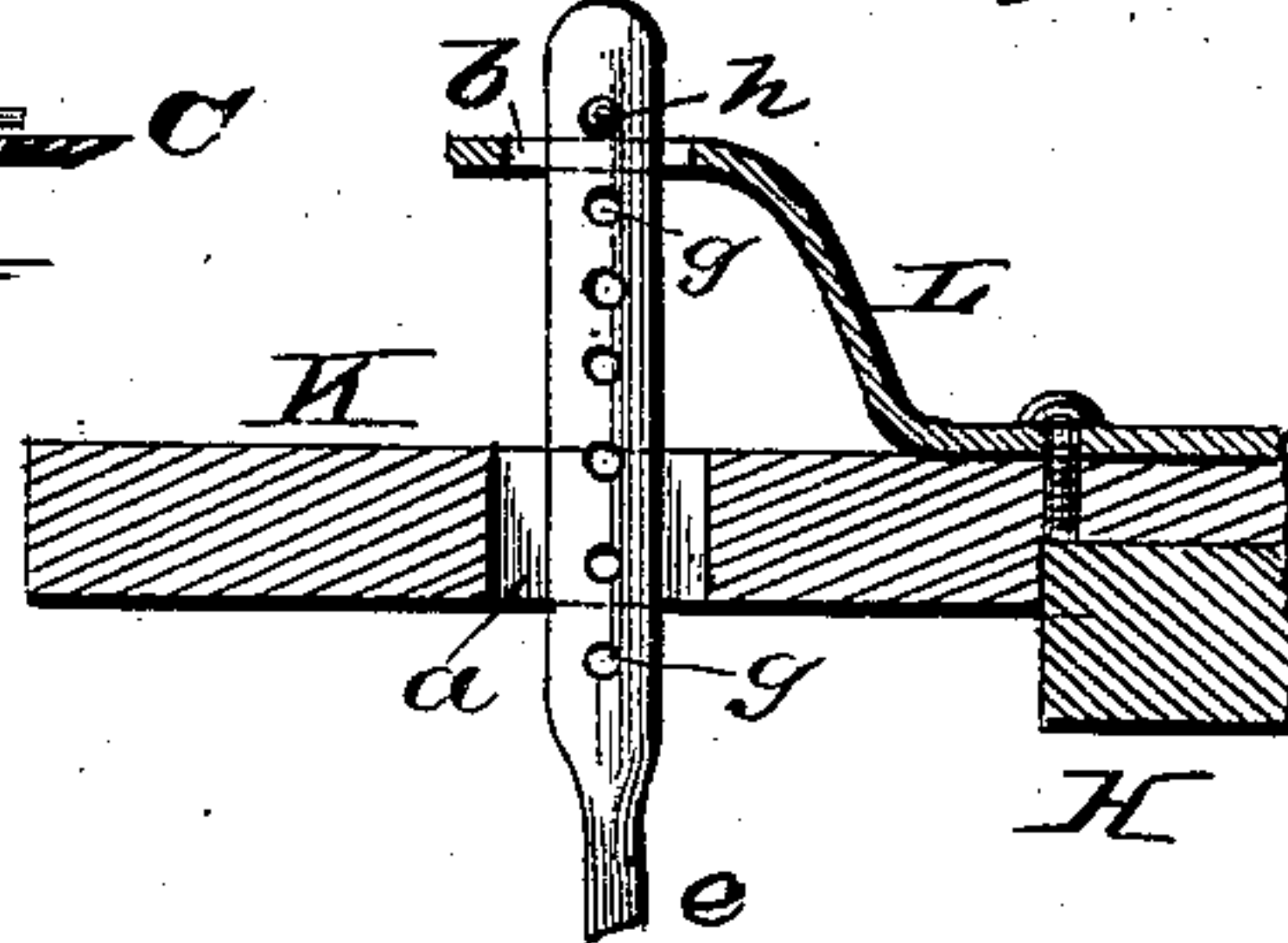


Fig. 4.



Witnesses:
Philip C. Masi.
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UNITED STATES PATENT OFFICE.

EMMANUEL T. COOK, OF CHICO, TEXAS.

STALK-CUTTER.

SPECIFICATION forming part of Letters Patent No. 281,460, dated July 17, 1883.

Application filed December 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, EMMANUEL T. COOK, a citizen of the United States, resident at Chico, in the county of Wise and State of Texas, have
5 invented certain new and useful Improvements in Stalk-Cutters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use
10 the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side view of my cutter. Fig. 2 is a top view of the same. Fig. 3 is a detail view, and Fig. 4 is also a detail view.

This invention has relation to machines for cutting cornstalks and weeds; and it consists
20 in the construction and novel arrangement of devices, as hereinafter set forth, and particularly pointed out in the appended claims.

In the accompanying drawings, the letter A designates the shoe or runner, which is centrally arranged, and is provided with oblique wings B, extending outward and rearward from its front end, and thereby giving the machine an angular or pointed form. To the
25 front end is attached the front knife, C, which is of pointed angular form. The wings B are rabbeted on the outside of their upper surfaces to form seats for the oblique side knives, D, these being secured to said seats by means of cap-plates E, and suitable screws or bolts and
35 nuts.

To the runner are secured the front standard, F, and rear standard, G, which support the upper longitudinal bar, H, of the frame. To the front and rear portions of this bar are secured, respectively, the front and rear transverse bars, K and K', which are slotted near their ends, as indicated at *a*. To these cross-bars are fastened centrally the cross-springs L and L', the arms of which rise over the ends
40 of the cross-bars, and are provided with end slots, *b*, corresponding to the slots *a* of the cross-bars.

P P indicate the lateral guide and pressure bars, diverging, as indicated at *c*, in front, to

gather the stalks or weeds to the knives of the machine, and diverging in rear, as indicated at *d*, forming pressure-bars above and in direction parallel, or nearly so, to the side knives, and designed to press the stalks or weed-stems to the side knives as the machine moves forward. The guide and pressure bars P are
55 suspended from the cross-springs L L', by means of vertical arms *e*, which extend upward from the pressure-bars through the perforations *a* of the cross-bars, and through the perforations or slots *b* of the springs L L'. The upper ends of these vertical arms *e* are provided with series of perforations *g*, arranged in vertical lines, and designed to receive the bearing-pins *h*, which rest on the springs and
65 support the pressure-bars. These pressure-bars are therefore adjustable, and can be placed at any desired height to suit the work.

In this construction it will be observed that the pressure-bars have, because of the springs LL' and the arms *e*, considerable elasticity and operate with spring-pressure, which tends to push the stalks or stems toward the knives with a succession of impulses, and yet allows the bars to yield when necessary to prevent
75 them from being injured.

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

1. In a stalk and weed cutter, the combination, with the oblique side knives, of the transverse slotted bars K K', springs L L', and the guide and pressure bars P, having vertical arms *e*, passing through the slots of the transverse bars, and connected to said springs, substantially as specified.
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2. In a stalk and weed cutter, the combination of the runner-frame, having oblique wings and front and side knives, the standards F G and bar H, the cross-bars K K', cross-springs L L', and adjustable pressure and guide bars P P, substantially as specified.
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In testimony whereof I affix my signature in presence of two witnesses.

EMMANUEL THOMAS COOK.

Witnesses:

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D. CAMPBELL.