

J. F. SMITH.  
Corn-Cob Splitter.

No. 205,693.

Patented July 2, 1878.

Fig. 1.

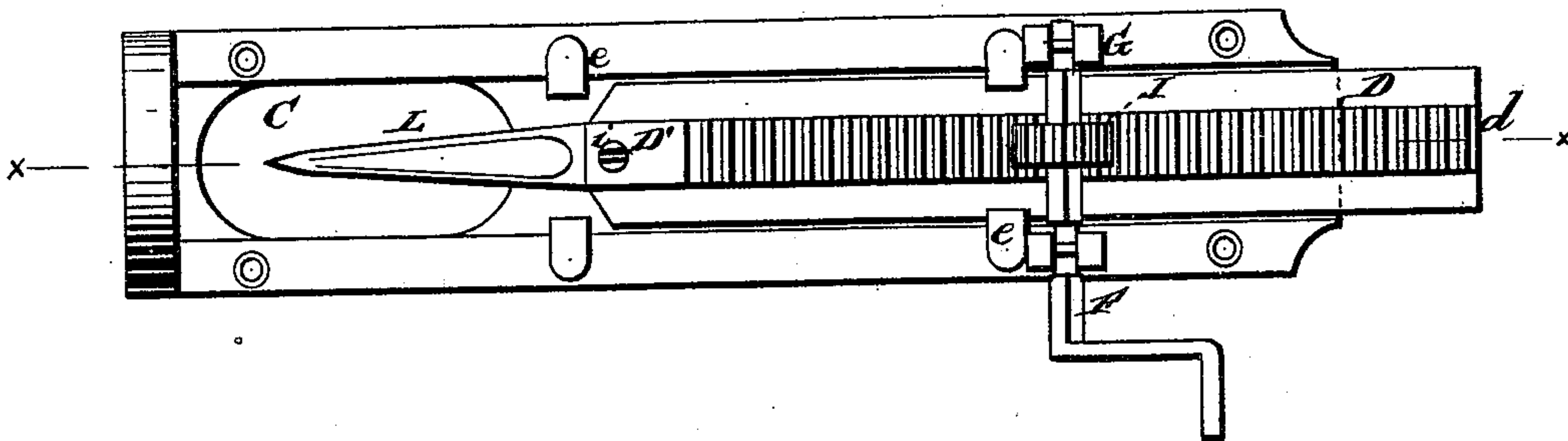


Fig. 2.

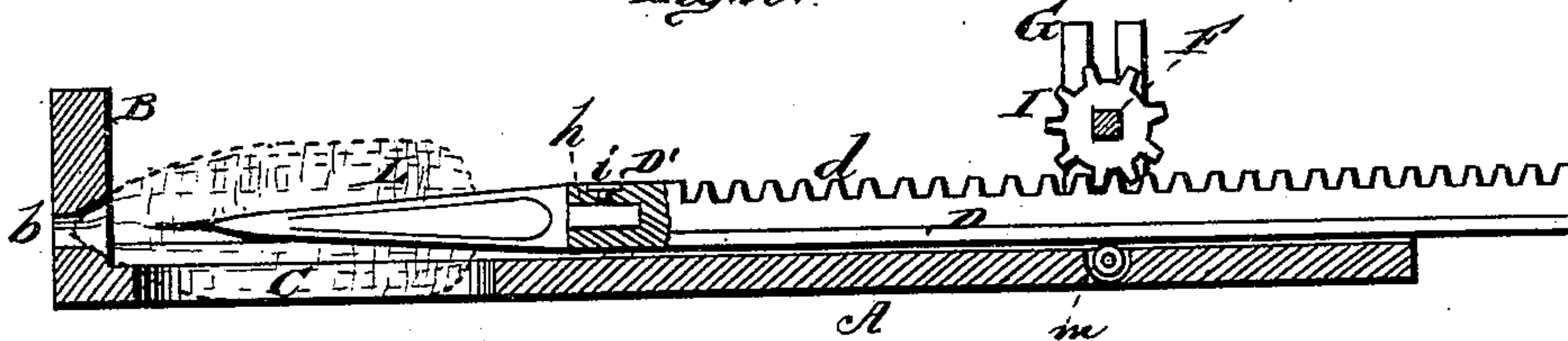


Fig. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOSEPH F. SMITH, OF TYLER, TEXAS.

## IMPROVEMENT IN CORN-COB SPLITTERS.

Specification forming part of Letters Patent No. **205,693**, dated July 2, 1878; application filed April 27, 1878.

*To all whom it may concern:*

Be it known that I, JOSEPH F. SMITH, of Tyler, in the county of Smith and State of Texas, have invented a new and valuable Improvement in Corn-Cob Splitters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a plan view of my corn-cob splitter. Fig. 2 is a longitudinal vertical sectional view through the line *x x*; and Figs. 3 and 4 are detail views thereof.

The nature of my invention consists in the construction and arrangement of a machine for splitting ears of corn for feeding stock, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

A represents the bed-plate of my machine, provided with suitable screw-holes *a* for fastening the machine in place. At one end of the bed A is a head-block, B, having an opening, *b*, countersunk on the inner face of the head-block to receive the small end of an ear of corn, which lies over an opening, C, in the bed.

In a longitudinal groove on the bed A is placed a slide or plunger, D, provided on its upper face with a rack-bar, *d*, said slide or plunger being held down on the bed by guides E E, as shown.

The slide is operated back and forth by means of a crank-shaft, F, having its bearings in two standards, G G, on the bed, and on said shaft is secured a pinion, I, which meshes with the rack-bar on the slide. By turning the crank on the shaft F the slide can be moved in either direction, as required.

In the inner end of the slide D is formed a head or socket, D', in which is inserted the shank *h* of the splitting-tool or splitting-pin L, and the shank held by a set-screw, *i*, as shown.

The splitting-pin L is in all cases made tapering, and may be round or triangular or four-cornered, with a concavity in each side, as shown.

With this machine the ear of corn may be split, the pin L entering the large end of the ear, and being forced by the pinion and rack-bar lengthwise through the same. The machine may be used on ears of corn having the shuck on equally as well as when the shuck is off.

Below the slide D, and on a vertical line with the pinion L, is a small friction-roller, *m*, to facilitate the movement of the slide.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for splitting corn-cobs and other similar articles, the head-block B, with countersunk opening *b*, in combination with a tapering pin operated by a rack and pinion, substantially as and for the purposes set forth.

2. The combination of the bed A with head-block B, having countersunk hole *b* and friction-roller *m*, the slide D, with rack-bar *a* and splitting-pin L, and the shaft F, with pinion I, all constructed substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH FLORY SMITH.

Witnesses:

M. T. BROWN,  
P. J. BAILEY.