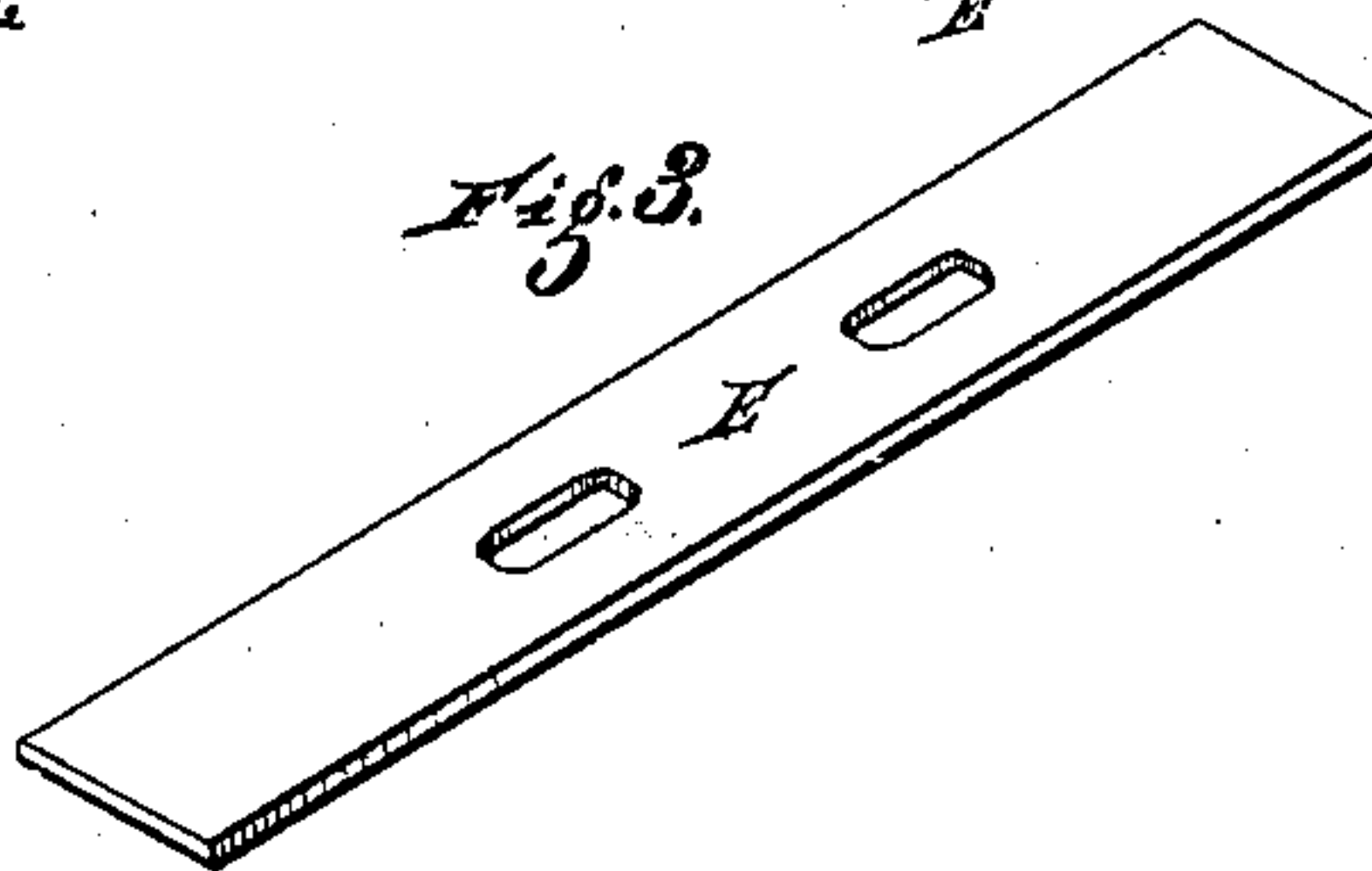
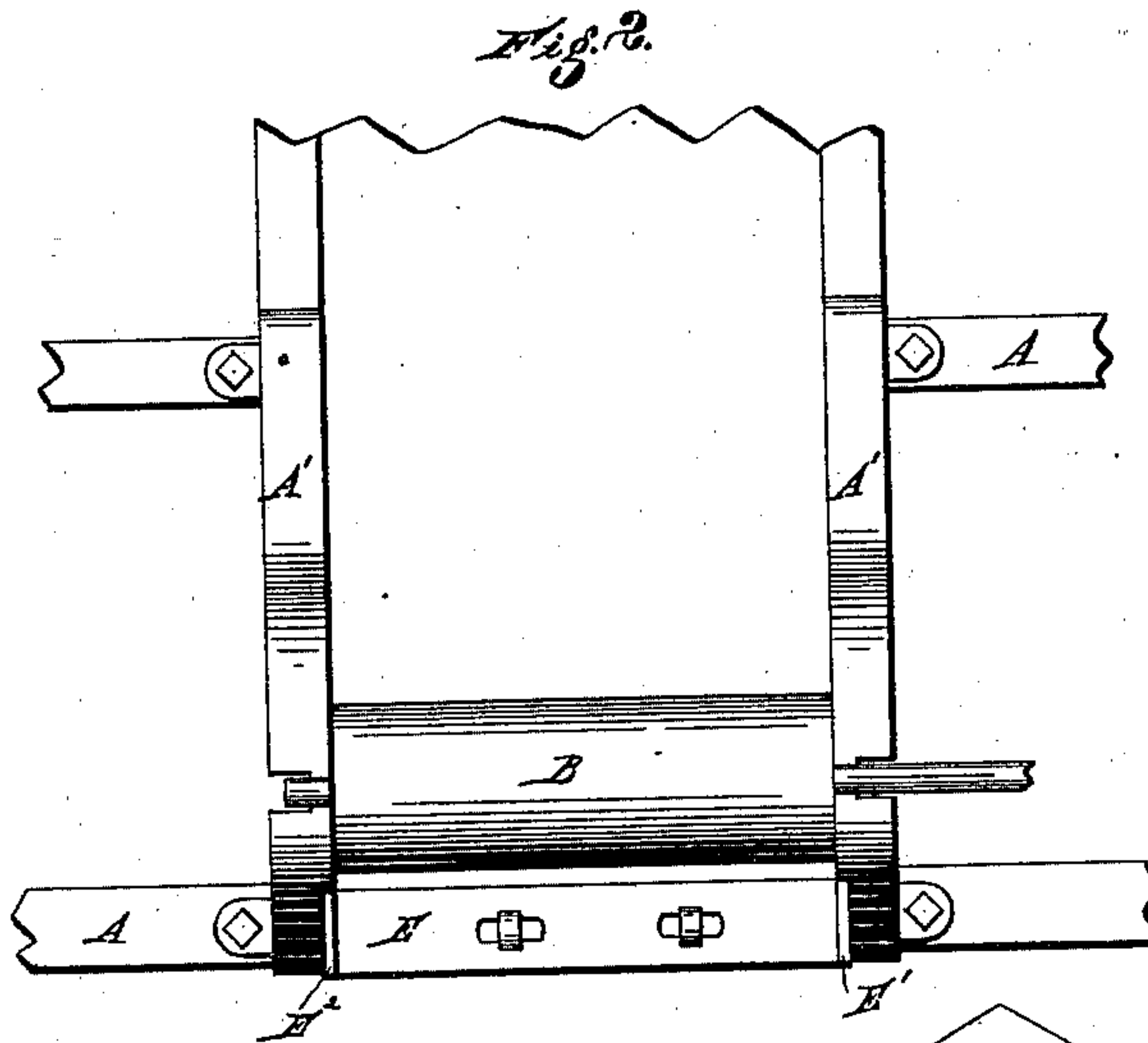
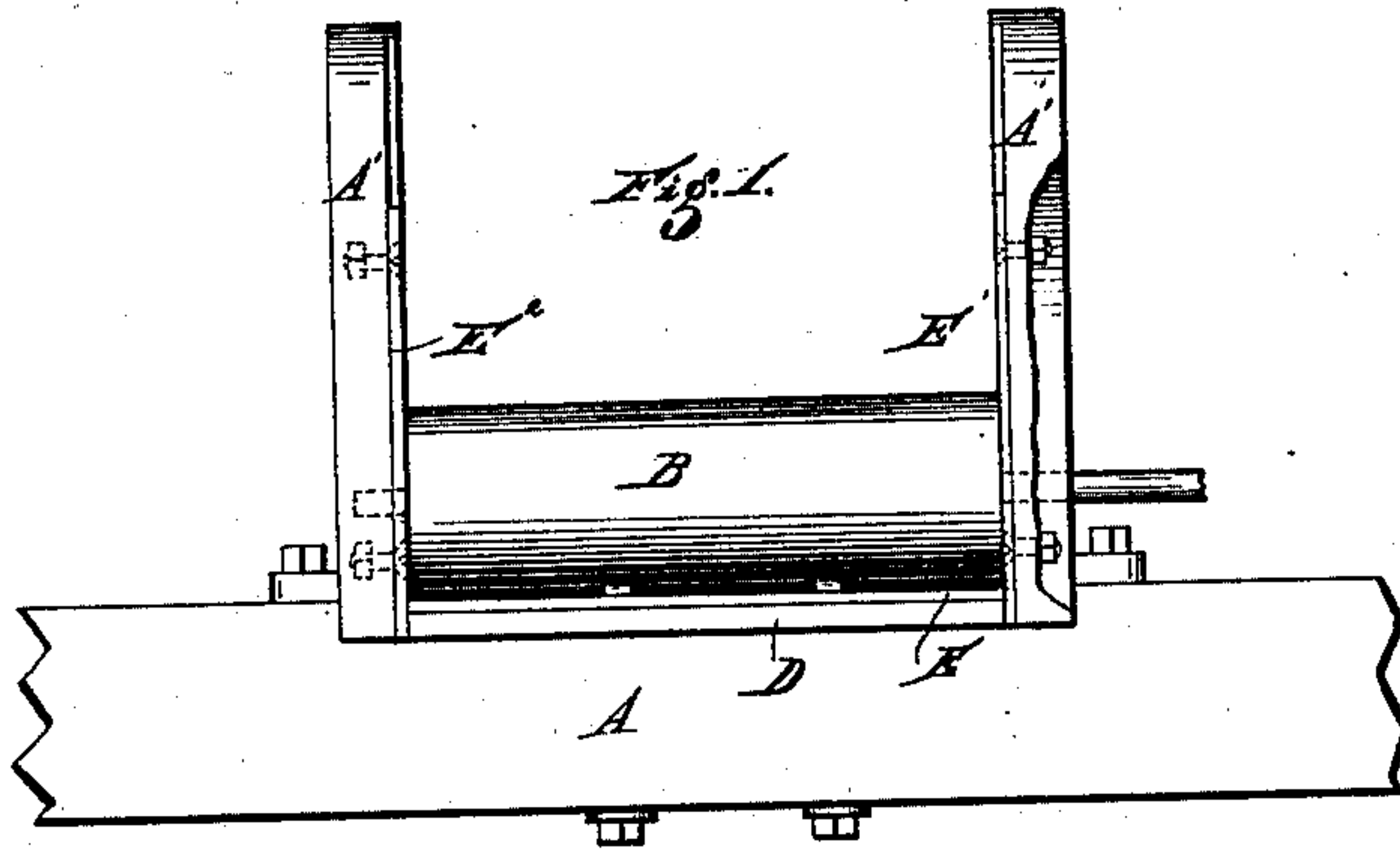


(No Model.)

M. MORTON.  
FEED CUTTER.

No. 308,847.

Patented Dec. 2, 1884.



WITNESSES  
Jno. E. Miles.  
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# UNITED STATES PATENT OFFICE.

MATTHEW MORTON, OF ROMEO, MICHIGAN.

## FEED-CUTTER.

SPECIFICATION forming part of Letters Patent No. 308,847, dated December 2, 1884.

Application filed January 14, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, MATTHEW MORTON, of Romeo, county of Macomb, State of Michigan, have invented a new and useful Improvement in Feed-Cutters; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the device herein-after specified, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a front elevation of a device embodying my invention. Fig. 2 is a plan view of a portion of the same. Fig. 3 is a view of a separate part.

My invention relates to feed-cutters, and is more especially designed to provide a reversible lining for the throat.

I carry out my invention as follows:

In the drawings, A and A' represent the frame of any ordinary feed-cutter. B is the roller. D is the throat.

E is my improved reversible throat-lining, made of steel suitably hardened, and secured upon the throat in any manner by which it may be reversed. As shown in the drawings, the lining is made with elongated slots, and is secured upon the throat by bolts having elongated heads, the construction being such that by loosening the nut upon the bolt the bolts may be turned around sidewise and the lining disengaged, being lifted over the head of the bolts in that position. When the lining has been reversed, the bolts are turned about so as to engage upon the lining, when they are suitably tightened.

It is well known that by the operation of the knife in cutting the upper edge of the throat adjacent thereto is worn away, necessitating frequent repair. By the use of a reversible throat-lining, however, it is evident that when the upper outer edge has been worn the lining may be simply turned end for end. When both the outer edges of the lining have been worn, the lining may be so reversed that the rear edges will be brought to the front. It is obvious that this construction provides for four wearing-edges at the throat, and thus the user is enabled to change the throat-lining and use it four times without repair. Moreover, when each of the four

edges has been worn, the lining may be readily removed from the machine for repair, and, being of thinner metal than an ordinary throat, it may be more readily repaired. This repair of the lining may be easily accomplished by simply grinding the edges upon an emery-wheel or in any other manner.

By this device great inconvenience and expense will be prevented, the throat of the feed-cutter provided with this reversible lining lasting four times as long as the ordinary throat before repair.

Heretofore, also, the metallic sides of the frame have been liable to the same wear upon their edges in contact with the knife which is the case with the inner front edge. My invention contemplates the location of reversible upright linings E' and E<sup>2</sup>, similar in construction and operation to that already described. In this manner the wear of the knife is taken off the body of the feed-cutter and transferred to these reversible throat-linings. Should these linings by long wear and needed repair become too much impaired, they may be easily replaced by duplicates without much additional expense.

The adjustable linings E' and E<sup>2</sup>, located upon the sides of the frame, I prefer to have countersunk, as shown, to prevent obstruction. I contemplate the use of these linings either at the base of the throat, as at E, or at the sides of the frame, as at E' and E<sup>2</sup>, or above, as may be desired.

What I claim is—

1. In a feed-cutter, a reversible lining to the throat, having elongated slots, in combination with bolts having elongated heads for attaching and detaching said lining to the throat without detachment of said bolts, substantially as described.

2. In a feed-cutter, the combination of the reversible linings E' E<sup>2</sup>, applied to the sides of the throat, the lining E, applied to the base of the throat intermediate of the linings E' E<sup>2</sup>, and formed with elongated slots, and the bolts having elongated heads to permit the attachment and detachment of the lining E without removal of the bolts, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

Witnesses: MATTHEW MORTON.

WM. M. PORTER,

M. B. O'DOHERTY.