

(No Model.)

2 Sheets—Sheet 1.

O. H. PARK & W. H. ELLIOTT.

VIGNETTING ATTACHMENT.

No. 286,632.

Patented Oct. 16, 1883.

Fig. 1.

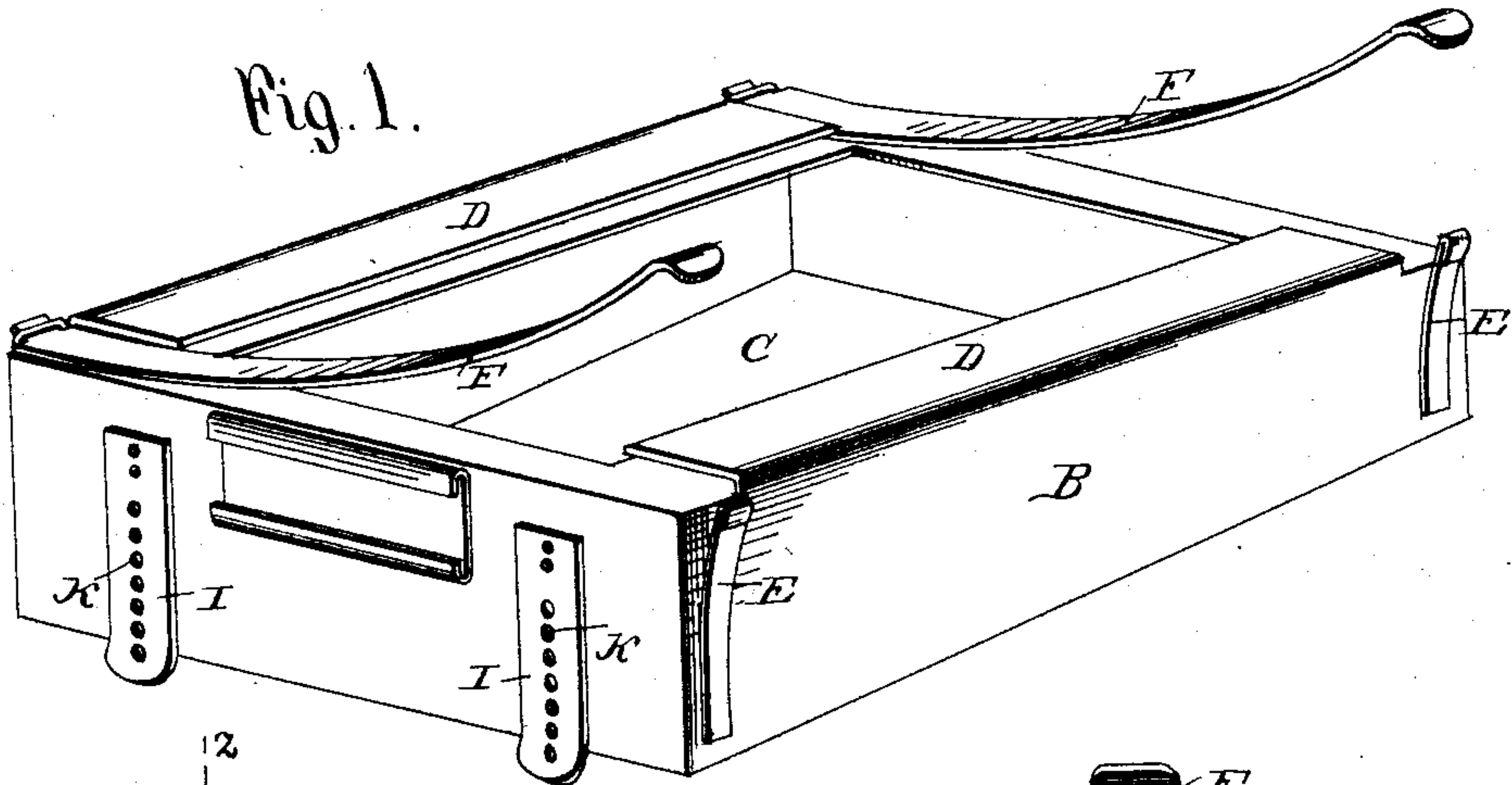


Fig. 2.

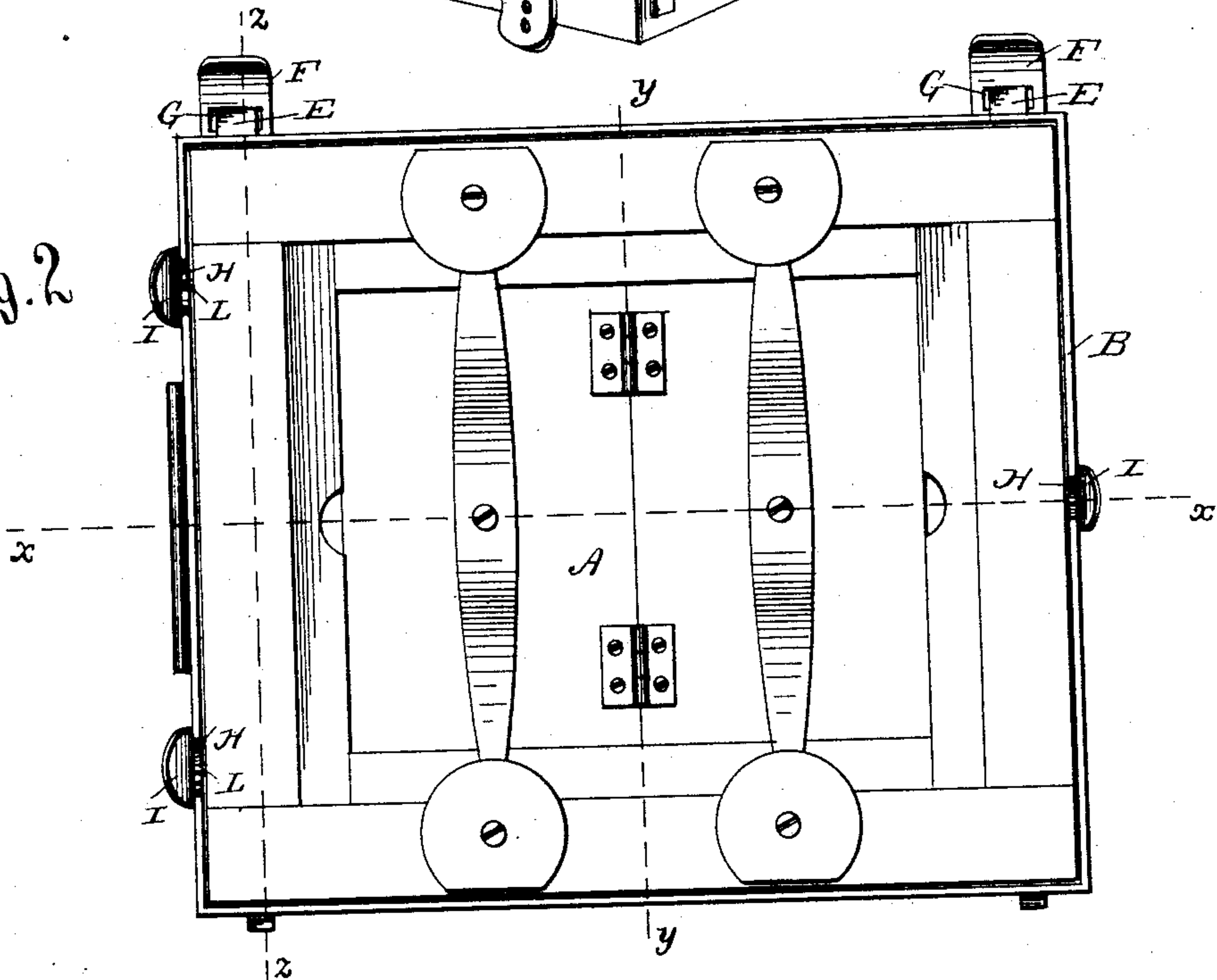
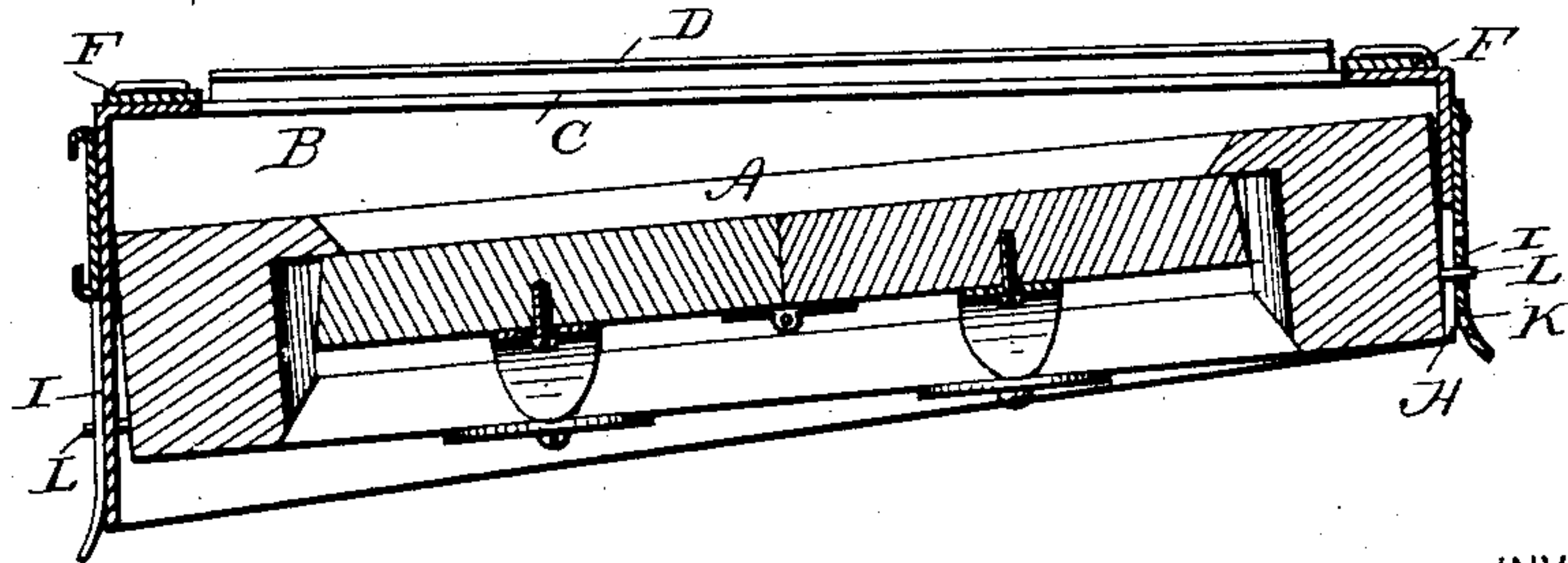


Fig. 3.



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2 Sheets—Sheet 2.

O. H. PARK & W. H. ELLIOTT.

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Fig. 4.

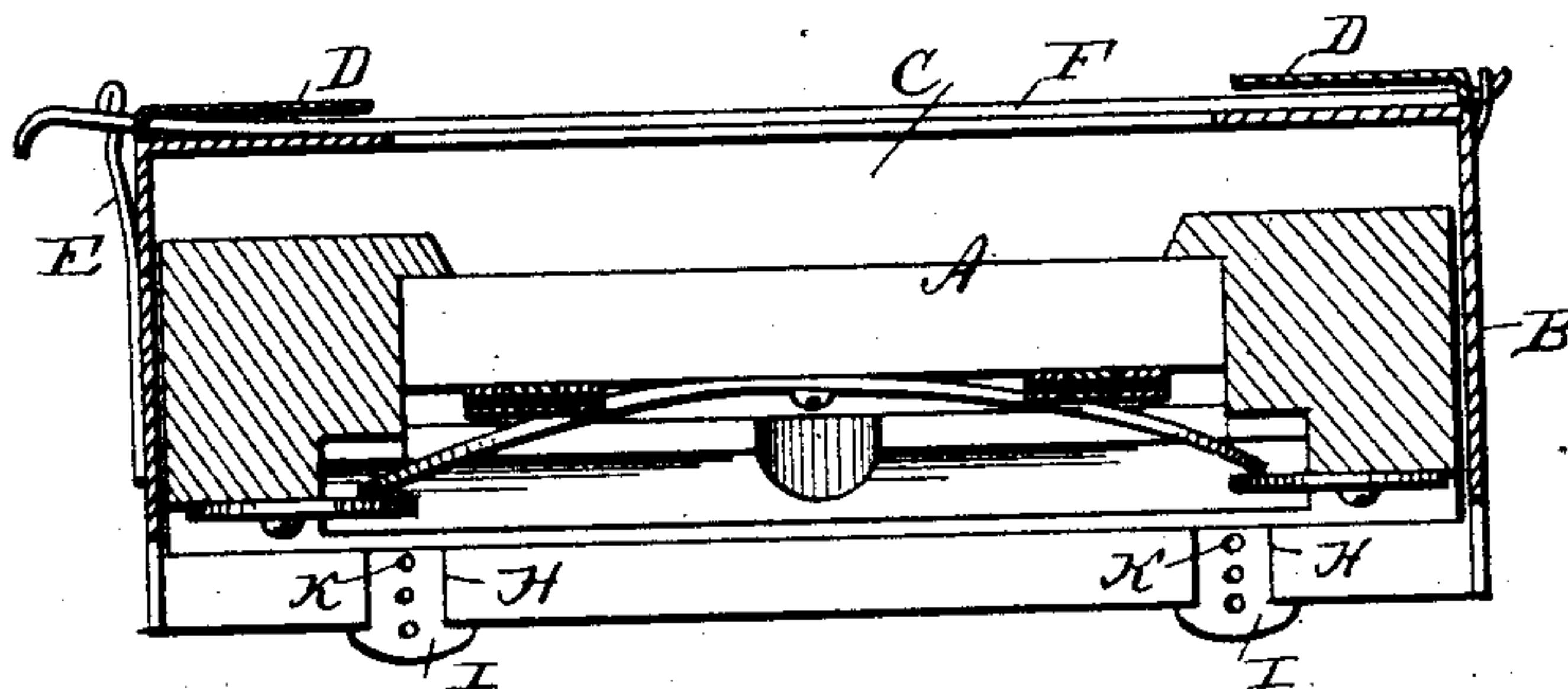


Fig. 5.

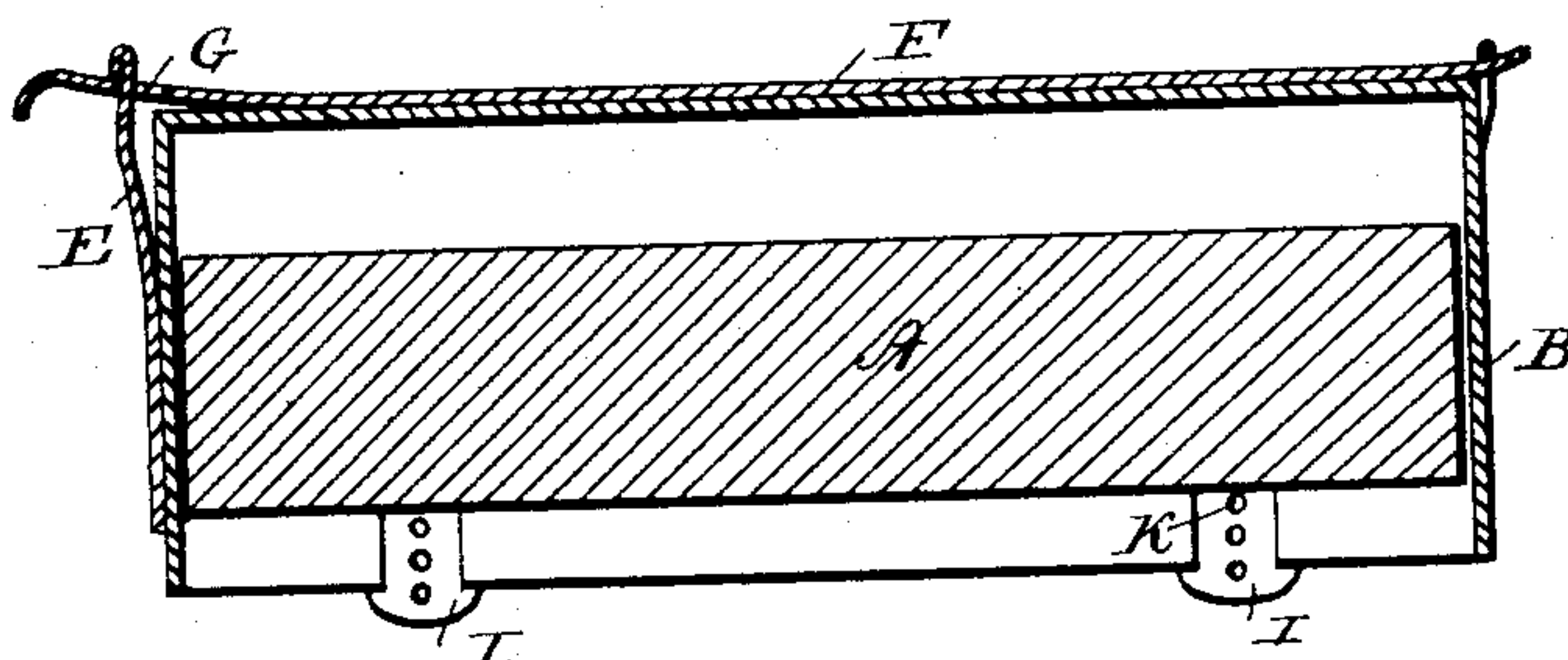


Fig. 6.

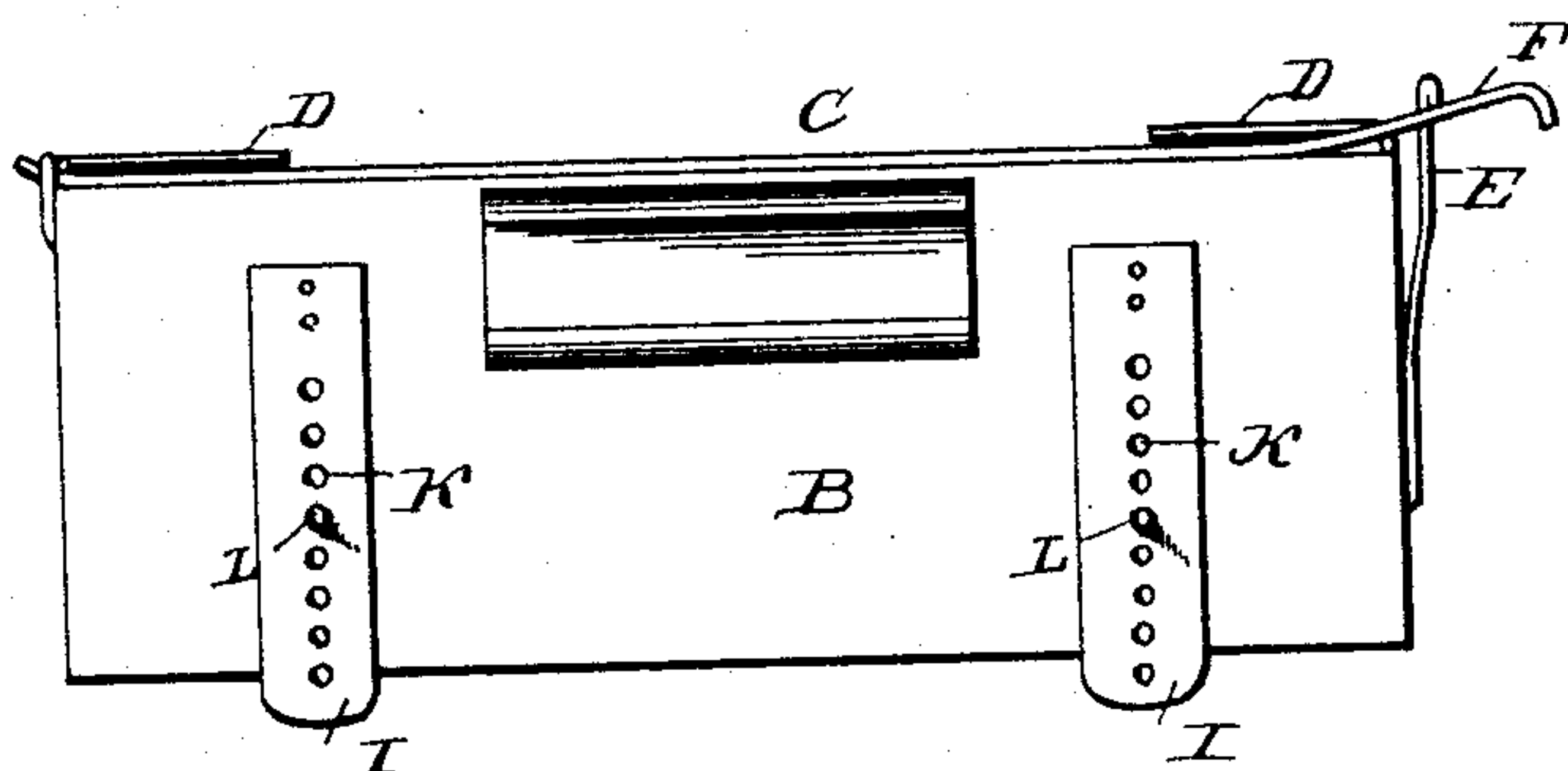
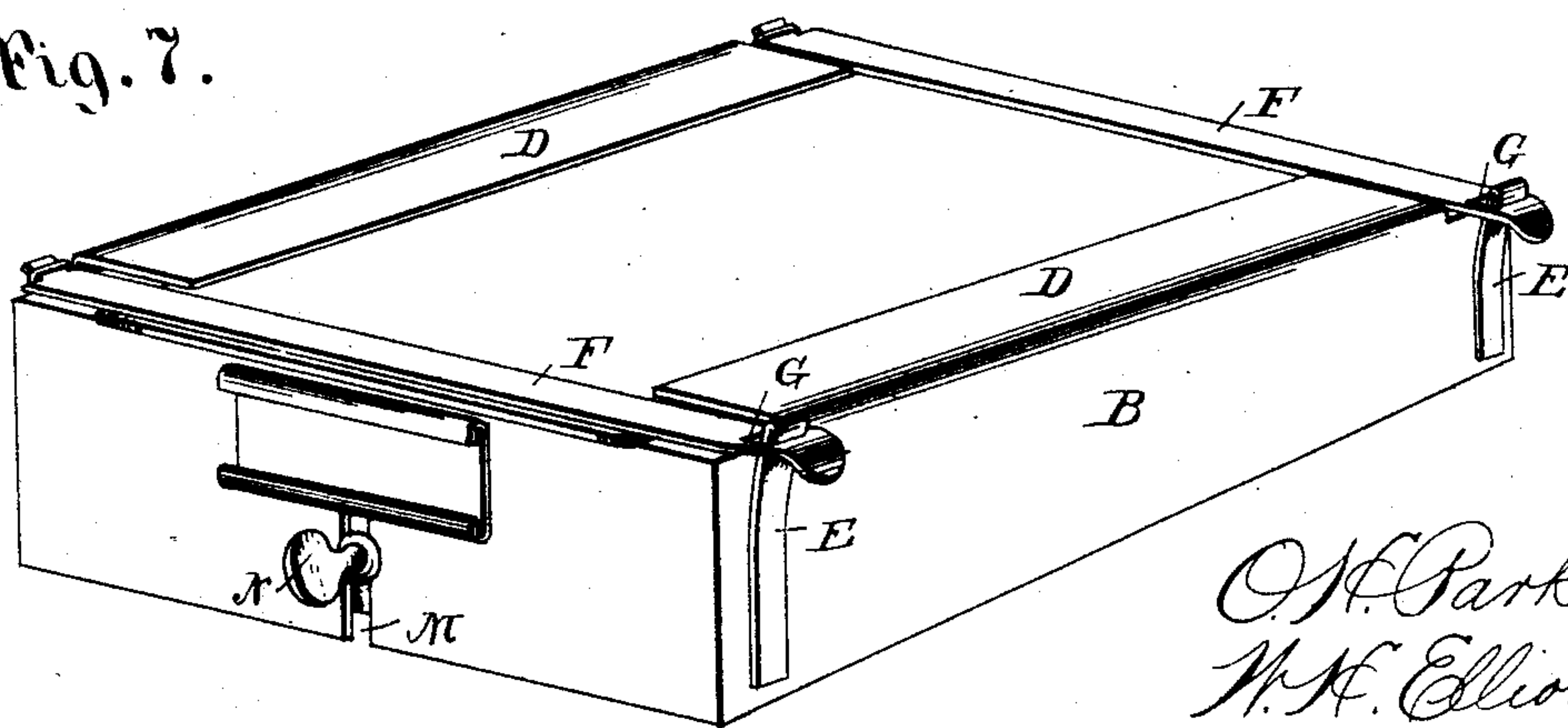


Fig. 7.



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UNITED STATES PATENT OFFICE.

OSCAR H. PARK AND WILLIAM H. ELLIOTT, OF CLARINDA, IOWA.

VIGNETTING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 286,632, dated October 16, 1883.

Application filed April 25, 1883. (No model.)

To all whom it may concern:

Be it known that we, OSCAR H. PARK and WILLIAM H. ELLIOTT, citizens of the United States, residing at Clarinda, in the county of Page and State of Iowa, have invented a new and useful Vignetting Attachment for Photographic Printing Apparatus, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to photographic vignetting apparatus; and it consists of a vignetting attachment for photographic printing-frames, the construction of which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of the vignetting attachment detached. Fig. 2 is a bottom plan view of the same attached to the printing-frame. Fig. 3 is a longitudinal section of the same on the line *xx* in Fig. 2. Fig. 4 is a transverse section on the line *yy* in Fig. 2. Fig. 5 is a transverse section on the line *zz* in Fig. 2. Fig. 6 is an end view, and Fig. 7 is a perspective view illustrating a modification.

The same letters refer to the same parts in all the figures.

A in the drawings designates a photographic printing-frame, of any suitable construction, to which our improved vignetting device is attached for operation. The said device consists, mainly, of a box-frame, B, made of metal or other suitable material, and having an opening, C, in its upper side, adjoining which flanges D are placed, either at the sides or ends of the frame, according to whether the device is intended to be used in connection with a single or double printing-frame. The under side of the frame B is beveled—that is, its one end is higher than the other—in order to enable the printing-frame to be adjusted to produce any desired style of blending, as will be presently more fully explained. The sides of the frame B are provided at or near the ends with spring clasps or catches E, for the purpose of securing the holding springs or strips F, which extend transversely across the frame B, near the ends of the same, and are provided at their ends with slots G, that receive and engage with the said catches. The flanges D terminate, as shown, at some

distance from the ends of the box, so as not to interfere with the operation of the said holding-springs, which serve to hold in position the vignetting plates or papers which are slid into and held by the flanges D. It will be seen that the function of the holding-springs is to prevent the displacement of the vignetting plates or papers from the said flanges. The ends of the frame B are provided with vertical slots H, over which springs I are secured. Said springs are provided with perforations K, to receive pins L, projecting from the ends of the printing-frame A, which may thereby be secured in any desired position to which it may be adjusted in the box-frame B.

Instead of the means just described for securing the printing-frame in position in the vignetting-frame, the latter may be simply provided with slots at the ends, as shown at M in Fig. 7, to receive set-screws N, adjusted in the ends of the printing-frame, which may thereby be adjusted to and held in any desired position.

The operation and advantages of our invention will be readily understood by those skilled in the art to which it appertains. It is simple, convenient, and easily applied to ordinary printing-frames, without injury to the latter.

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

The combination, with the photographic printing-frame having pins or studs projecting from its ends, of the herein-described vignetting attachment, consisting of a box-like frame having an opening in the top, flanges adjoining said opening, holding-springs adjoining the ends of said flanges, vertical slots in the ends of the vignetting-frame, and the springs covering the said slots, and having perforations to receive the pins in the ends of the printing-frame, as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

OSCAR H. PARK.

WILLIAM H. ELLIOTT.

Witnesses:

THOMAS H. BEDWELL,

ELLSWORTH E. HURLBUT.