

No. 633,530.

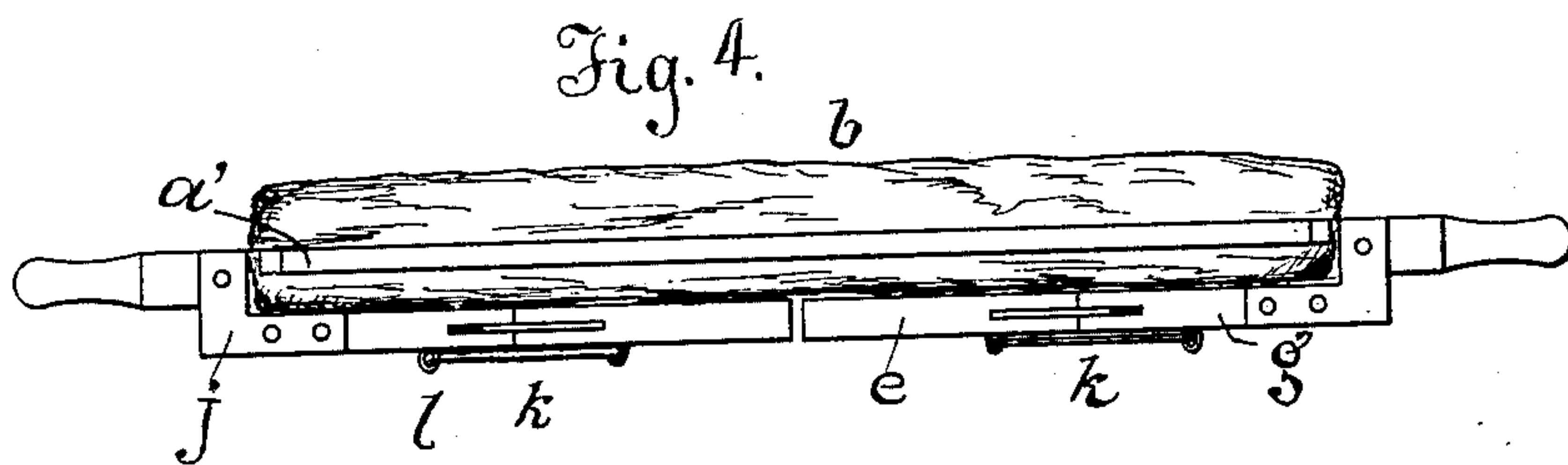
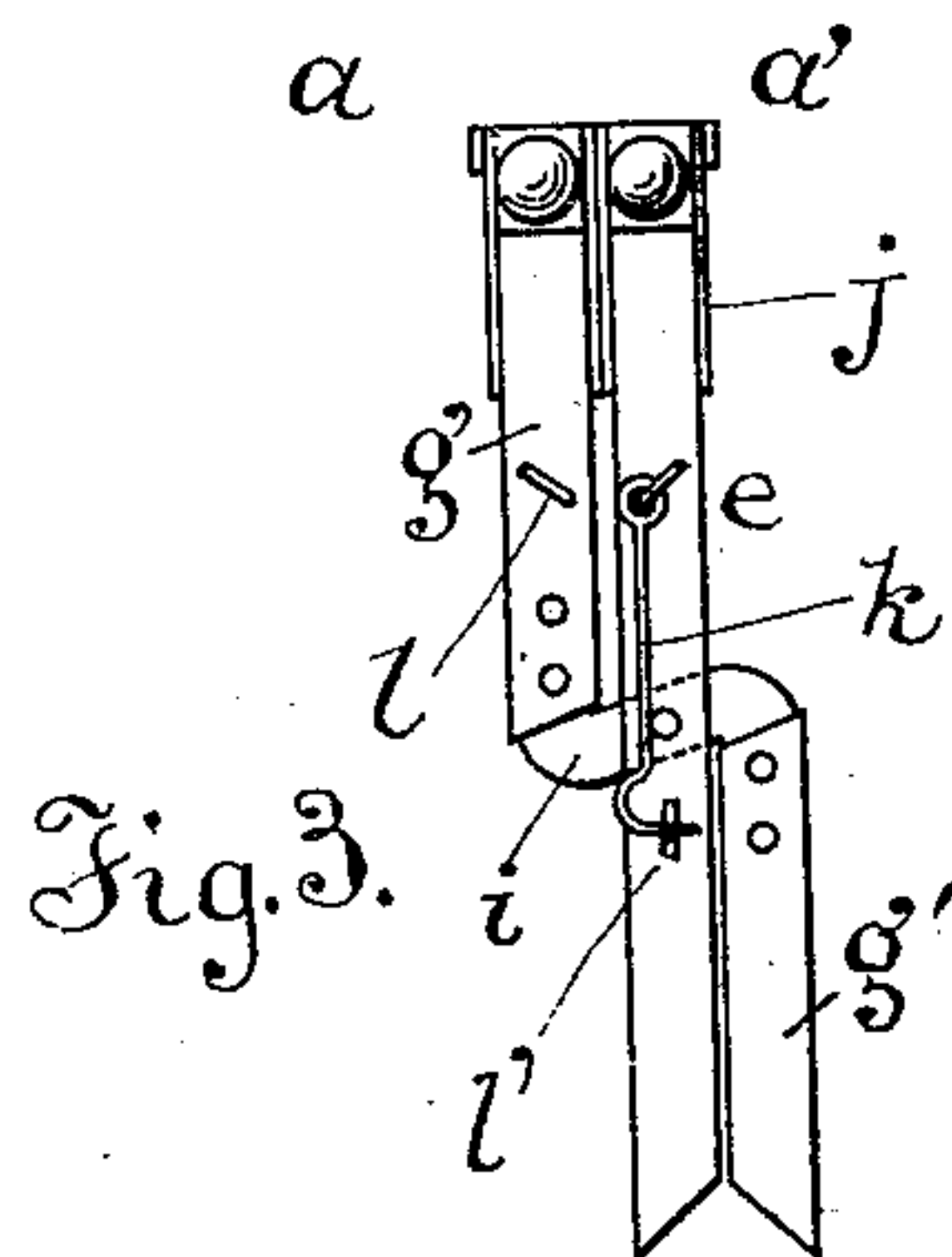
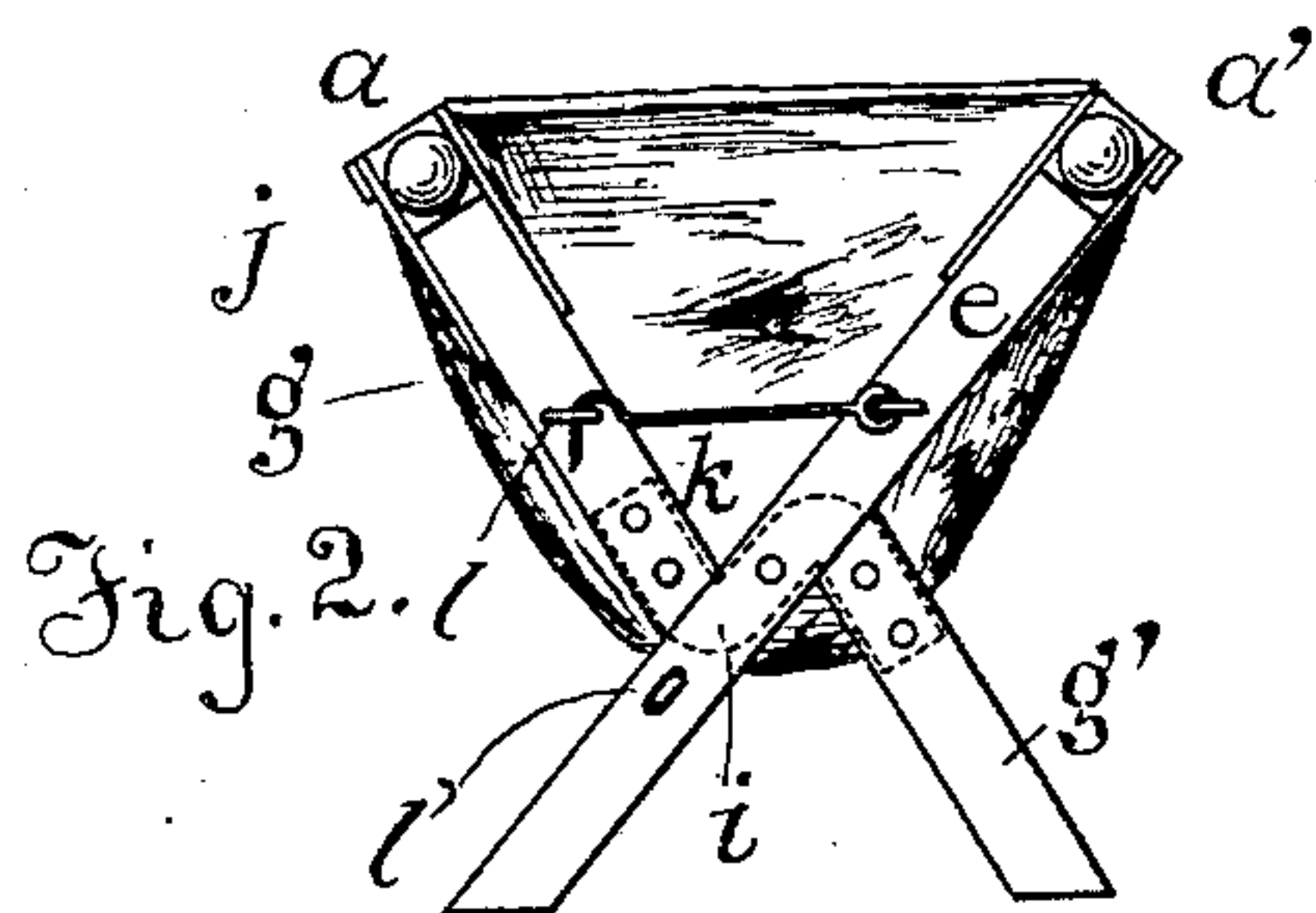
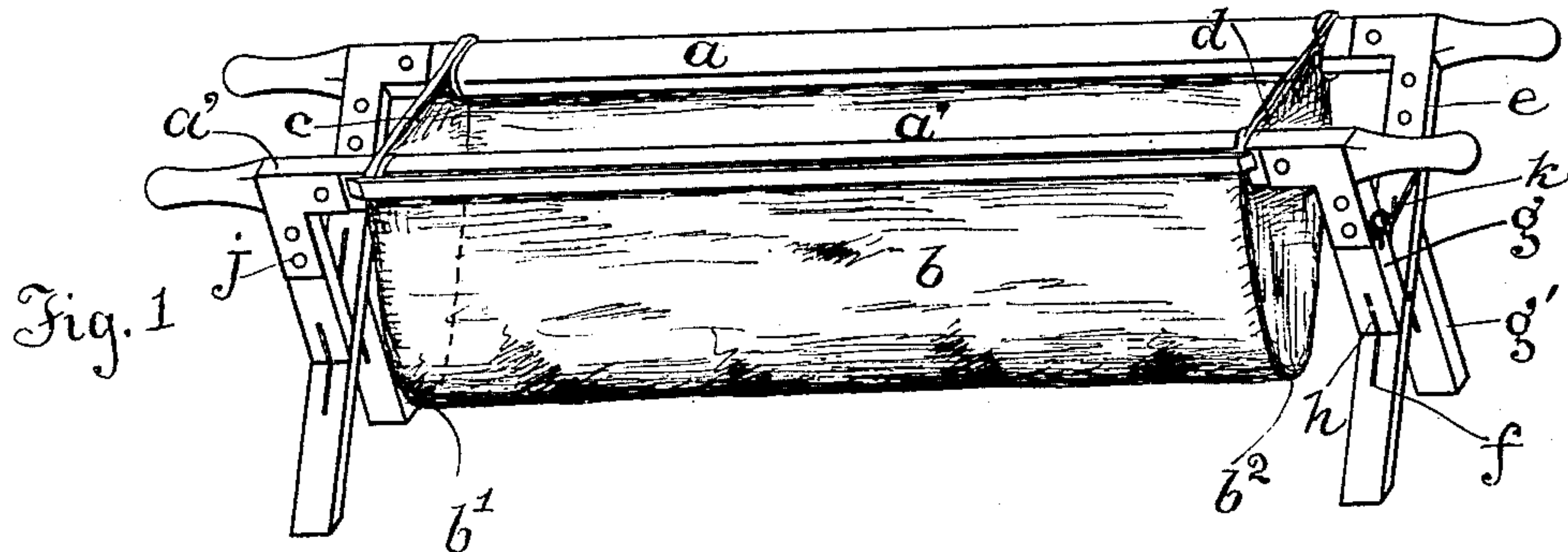
Patented Sept. 19, 1899.

L. M. MYERS.

HOP BIN.

(Application filed July 11, 1898.)

(No Model.)



Witnesses:  
E. G. Seaman  
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# UNITED STATES PATENT OFFICE.

LEVI M. MYERS, OF NEWBERG, OREGON.

## HOP-BIN.

SPECIFICATION forming part of Letters Patent No. 633,530, dated September 19, 1899.

Application filed July 11, 1898. Serial No. 685,711. (No model.)

*To all whom it may concern:*

Be it known that I, LEVI M. MYERS, a citizen of the United States of America, and a resident of Newberg, in the county of Yamhill and State of Oregon, have invented certain new and useful Improvements in Hop-Bins, of which the following is a specification, reference being had to the accompanying drawings as a part thereof.

My invention relates to hop bins or receptacles over which the hop-poles, with the vines still thereon, are laid when picking off the hops. A number of such bins are necessarily used in all large hop-yards, and frequently there are several patches of hops some distance apart to be picked, so the difficulty has been to conveniently transport the bins to the fields and to store them when the season is over. To remove this inconvenience is the object of my invention; and to this end I have invented the folding bin I am about to describe, the construction of which is as shown in the drawings referred to, which represent as follows:

Figure 1 is a perspective elevation. Fig. 2 is an end elevation. Fig. 3 is also an end elevation showing the crotches folded together, and Fig. 4 is a side elevation showing the appearance of my bin with the crotches folded together as seen in Fig. 3 and turned under.

The letters designate the parts referred to.

My bin is constructed of two rails  $a$   $a'$ , to which is attached a sack-like receptacle made of some suitable fabric and composed of a long and wide body-strip  $b$ , tacked to the sides of the said rails, and the head and tail pieces  $b'$   $b''$ , sewed to the ends of the body-strip. To make the head and tail pieces taut, ropes  $c$  and  $d$  are fastened by their ends between the rails at their extremities and inserted through loops therefor provided in such head and tail pieces.

The rails are supported on two folding and jointed crotches, each comprising a member  $e$ , provided with a central longitudinal slot  $f$ , and a corresponding member composed of two sections  $g$  and  $g'$ , both of which have a slot  $h$  at their inner ends and fixedly hold a curved plate  $i$ , pivoted at its center in the slot  $f$  of the member  $e$ . Said crotches are hinged to the rails by means of angle-plates

$j$ , two of which are secured to the head of each member of the crotch and then pivotally attached on the outsides of the rails, near their extremities, as seen in Fig. 1, so as to constitute a joint enabling the crotches when closed to be folded under the rails. The hook  $k$  is attached by a screw-eye to one member of each crotch, and the other is provided with an eye  $l$ , in which to insert the head of such hook, whereby the members of the crotches are kept spread apart. While so fixed the crotches, obviously, cannot be turned under the rails, and thus all danger of the bin accidentally collapsing is avoided. When not using the bin or when transporting the same to the field, the hook  $k$  is unlatched and the head of such hook secured in an eye  $l'$ , as shown in Fig. 3, the jointed members of the crotches straightened, as seen in Fig. 3, and then the crotches are folded under the rails, the sack being pulled up and folded around the rails, and the whole is converted into a small compact body, a considerable number of which may be conveniently loaded on the wagon to be taken to the field, and at the end of the season may be stored in the barn until the arrival of the next season.

Now what I claim is—

1. As a hop-bin, a pair of rails and a sack-like receptacle, hung therefrom, such rails being supported on a two-folding and jointed crotches, each comprising a member,  $e$ , provided with a central longitudinal slot and a corresponding member composed of two sections  $g$  and  $g'$ , both of which are slotted at the inner ends and fixedly hold a curved plate,  $i$ , pivoted at its center in the slot in the member  $e$ , and the heads of the crotches being provided with angle-plates,  $j$ , whereby they are pivotally attached near the extremities of the rails, substantially as described.

2. As a hop-bin, a pair of rails and a sack-like receptacle, hung therefrom, such rails being supported on a two-folding and jointed crotches, each comprising a member,  $e$ , provided with a central longitudinal slot and a corresponding member composed of two sections,  $g$  and  $g'$ , both of which are slotted at the inner ends and fixedly hold a curved plate,  $i$ , pivoted at its center in the slot in the member  $e$ , and the heads of the crotches

being provided with angle-plates, *j*, whereby  
they are pivotally attached near the extremi-  
ties of the rails, and means for holding the  
members of the crotches spread apart, thereby  
5 locking the crotch-supports so that they will  
not fold under the rails until released, sub-  
stantially as described.

Signed by me, at the city of Portland, county  
of Multnomah, and State of Oregon, this 24th  
day of February, 1898.

LEVI M. MYERS.

Witnesses:

A. CALY,  
T. J. GEISLER.