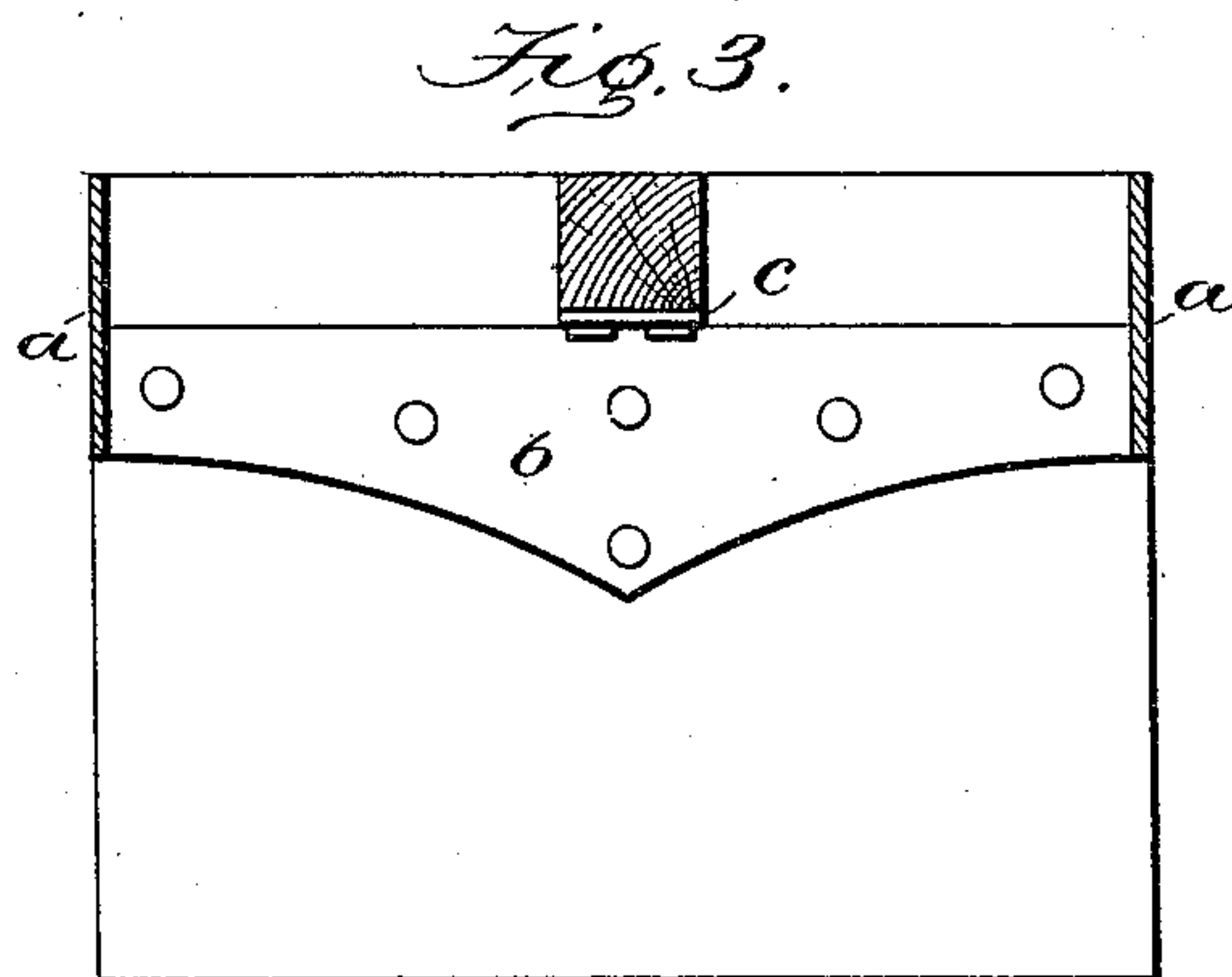
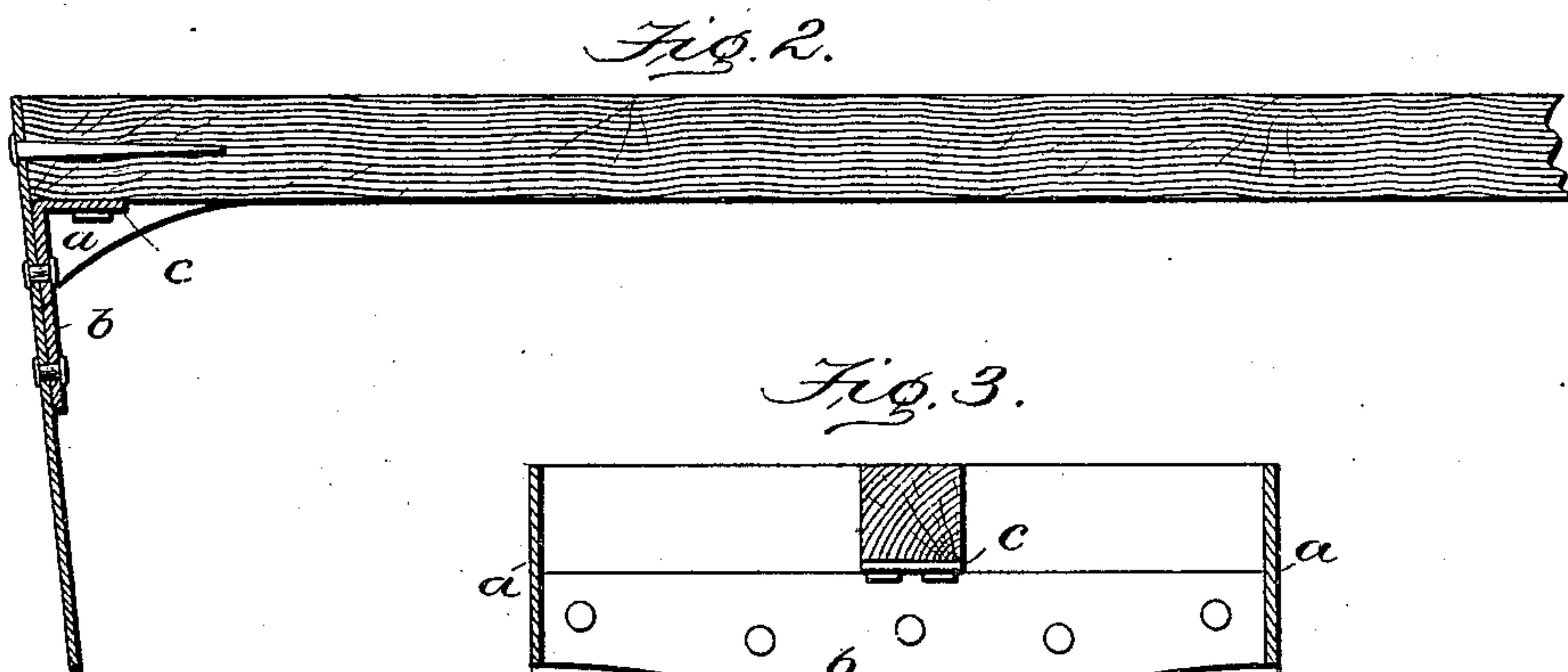
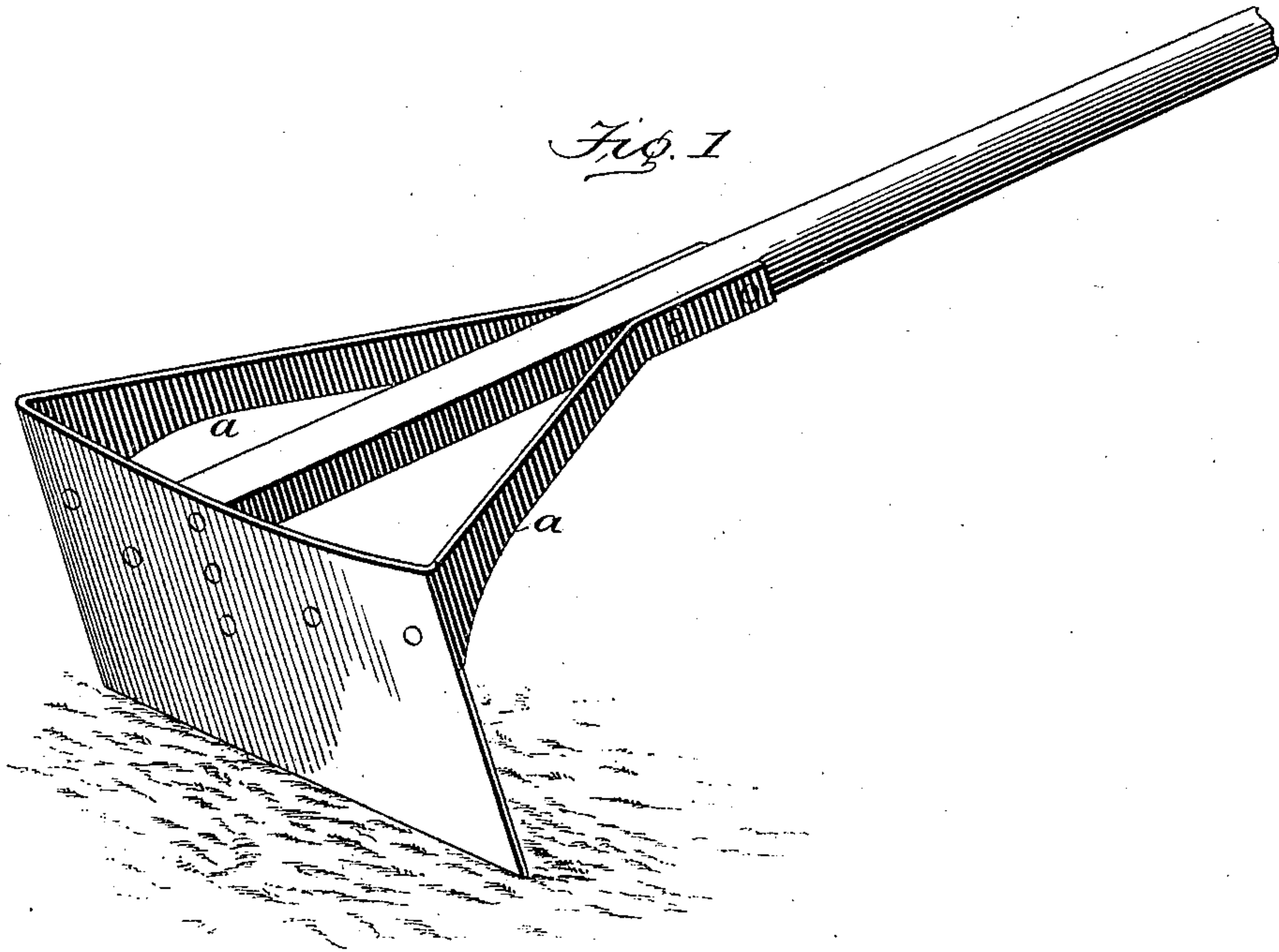


(No Model.)

W. B. CHAMBLIN.  
HOE.

No. 587,088.

Patented July 27, 1897.



WITNESSES:

Edwin L. Bradford  
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INVENTOR

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BY

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# UNITED STATES PATENT OFFICE.

WILLIAM B. CHAMBLIN, OF ROUND HILL, VIRGINIA.

## HOE.

SPECIFICATION forming part of Letters Patent No. 587,088, dated July 27, 1897.

Application filed February 11, 1897. Serial No. 622,924. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM B. CHAMBLIN, of Round Hill, in the county of Loudoun and State of Virginia, have invented a new and  
5 useful Improvement in Hoes, of which the following is a specification.

The accompanying drawings illustrate my improved hoe in perspective in Figure 1, and in Fig. 2 is shown the blade and the way in  
10 which it is reinforced and secured to the end of the handle, and Fig. 3 shows in section the blade and its knee-brace connection with the end of the handle.

The hoe is produced by cutting or stamping  
15 from sheet metal, such as sheet-iron or boiler-iron, of the required thickness for stiffness, together with integral wing parts *a a* at the vertical edge of the upper corners, which are long enough to be bent and secured to each  
20 side of the handle. The handle is also secured to the blade at its upper edge by nails driven through the end of the handle, and to reinforce this connection and to brace and give greater stiffness to the blade I provide a  
25 stay-piece *b*, crossing the blade and secured to it beneath the handle between the wing parts, whereby the blade is rendered stiff between the wings. This stay-piece is formed with an upset-tongue *c*, which projects be-  
30 neath the handle, is secured to it, forms a knee-brace thereto, and gives an effective fastening for the end of the tongue to the blade. This knee-brace serves to resist the thrust of the blade upon the end of the handle, and

thereby gives a durable fastening for the end 35  
of the handle to the inner face of the blade and relieves the strain upon the wing-fastenings. The stay is riveted to the blade, and it may be of any suitable width and form. The wings  
40 connecting the vertical edges of the blade serve to stiffen it. The wings also serve to form sides to the blade and thereby give it greater digging effectiveness and coact with the blade in holding the earth. The handle  
45 being fastened to the blade and to the wings in rear of the blade renders the fastening of the hoe to its handle much stronger.

I claim—

1. A hoe formed of a sheet-iron blade with wings at its side edges at the upper corners 50  
and the handle having its end abutting and secured against the wall of the blade and also bolted to and between the ends of the wings in rear of the blade whereby the wings form  
55 braces for the handle and sides to the blade.

2. The combination with the hoe-blade of sheet-iron having wings at its upper vertical corner edges and the handle secured to the wings and to the inner face of the blade, of the stay-piece secured to the inner face of the 60  
blade beneath the handle and to the end of the tongue, forming a knee-brace thereto and reinforcing the blade.

W. B. CHAMBLIN.

Witnesses:

OWEN I. THOMAS,  
A. L. MOORE.