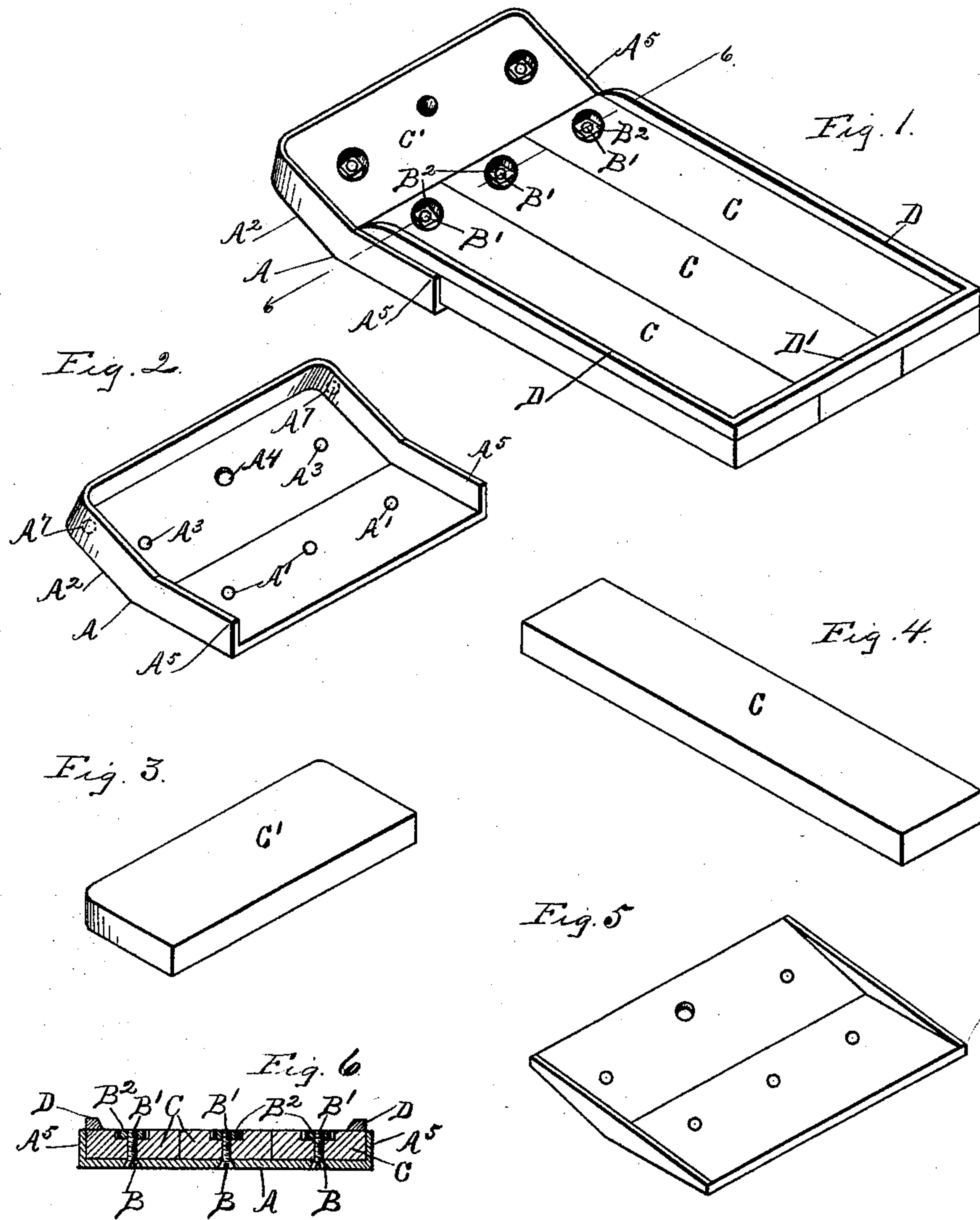


(No Model.)

W. ALLEN.
METALLIC CROOK FOR STONE BOATS.

No. 500,363.

Patented June 27, 1893.



Witnesses:
Frank C. Curtis
A. E. Delaney

Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM ALLEN, OF GREENWICH, NEW YORK, ASSIGNOR OF ONE-HALF TO
LEWIS H. FINCH, OF SAME PLACE.

METALLIC CROOK FOR STONE-BOATS.

SPECIFICATION forming part of Letters Patent No. 500,363, dated June 27, 1893.

Application filed March 25, 1893. Serial No. 467,668. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ALLEN, a citizen of the United States, residing at Greenwich, county of Washington, and State of New York, have invented certain new and useful Improvements in Stone-Boats, of which the following is a specification.

My invention relates to such improvements and consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in perspective of my improved stone-boat. Fig. 2 is a similar view of the metallic crook detached. Fig. 3 is a similar view of the front end cross-plank detached. Fig. 4 is a similar view of one of the body-planks detached. Fig. 5 is a similar view showing a modified form of crook. Fig. 6 is a cross-section of the boat taken on the broken line 6—6, in Fig. 1.

In the manufacture of stone-boats, it has been the custom heretofore to saw planks in such a manner as to form a crook at one end of each plank. The planks were then secured together side by side by cross-bars in such a manner that the crooks were in the same straight line extending transversely of the boat. The crooks were sawed by vertically reciprocating saws formerly common in country towns. In recent years the circular saw has largely superseded the reciprocating saw, and it is wholly impracticable to form the required crooks by circular saws.

To hew out from the log planks with the required crooks would be an exceedingly laborious and expensive operation, and the leading feature of my invention consists of a metallic crook, to which common straight-sawed planks can be easily and cheaply secured to form a stone-boat that will be more durable than one made with the sawed crook.

Referring to the drawings, A— is the me-

tallic crook, having the horizontal portion provided with bolt-holes A'— beveled or countersunk on the lower side to receive the heads B— of the bolts B'— by which the body planks C— are secured to the crook. Bolt-holes are bored in the planks and preferably counter-bored on the upper side to permit the bolt-nuts B²— to be sunk below the upper surfaces of the planks, as shown in Fig. 6.

The upwardly inclined end A²— of the crook is provided with bolt-holes A³— similar to the holes A'— by which the front end cross-plank C'— is secured to the crook in the position shown in Fig. 1. The upwardly inclined end of the crook is also provided with a large draw-aperture A⁴— in its middle longitudinal line, adapted to receive the draw-chain or other connection by which the boat is drawn from one place to another. The end cross-plank is provided with a similar aperture so located as to register with the draw-aperture in the metallic crook.

The crook should be provided with upwardly-projecting ribs or flanges A⁵— which defend the plank and assist the bolts by warding off the blows to which in practice they would otherwise be subjected. They also serve to strengthen the crook.

The form and size of the stiffening flanges may be varied as desired.

The usual fender-strips D— may be secured to the edges of the body-part of the boat in the common well known manner. The rear cross-strip D'— secured to each body-plank, also serves to bind the rear ends of the planks together and keep them in place.

When desired two draw-holes may be provided in the crook, one in each of the stiffening flanges, as indicated by dotted lines A⁷— in Fig. 2, or any well known means of attaching a draw-chain may be employed.

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

1. The stone boat consisting of a metallic crook having one end inclined to the other and provided with a strengthening and defending flange A⁵, a front cross plank C' and lengthwise plank C abutting against said

plank within the side members of the flange, substantially as set forth.

2. A metallic crook for a stone boat having one end inclined to the other and each end
5 provided with bolt holes for securing planks thereto and having a strengthening and wood-defending flange A⁵ on each end, substantially as set forth.

In testimony whereof I have hereunto set my hand this 21st day of March, 1893.

WILLIAM ALLEN.

Witnesses:

MATTHEW VAN NESS,
WILLIAM L. ROBINSON.