

No. 697,183.

Patented Apr. 8, 1902.

C. STOUT.
SUGAR PADDLE.

(Application filed Jan. 8, 1901.)

(No Model.)

Fig. 1

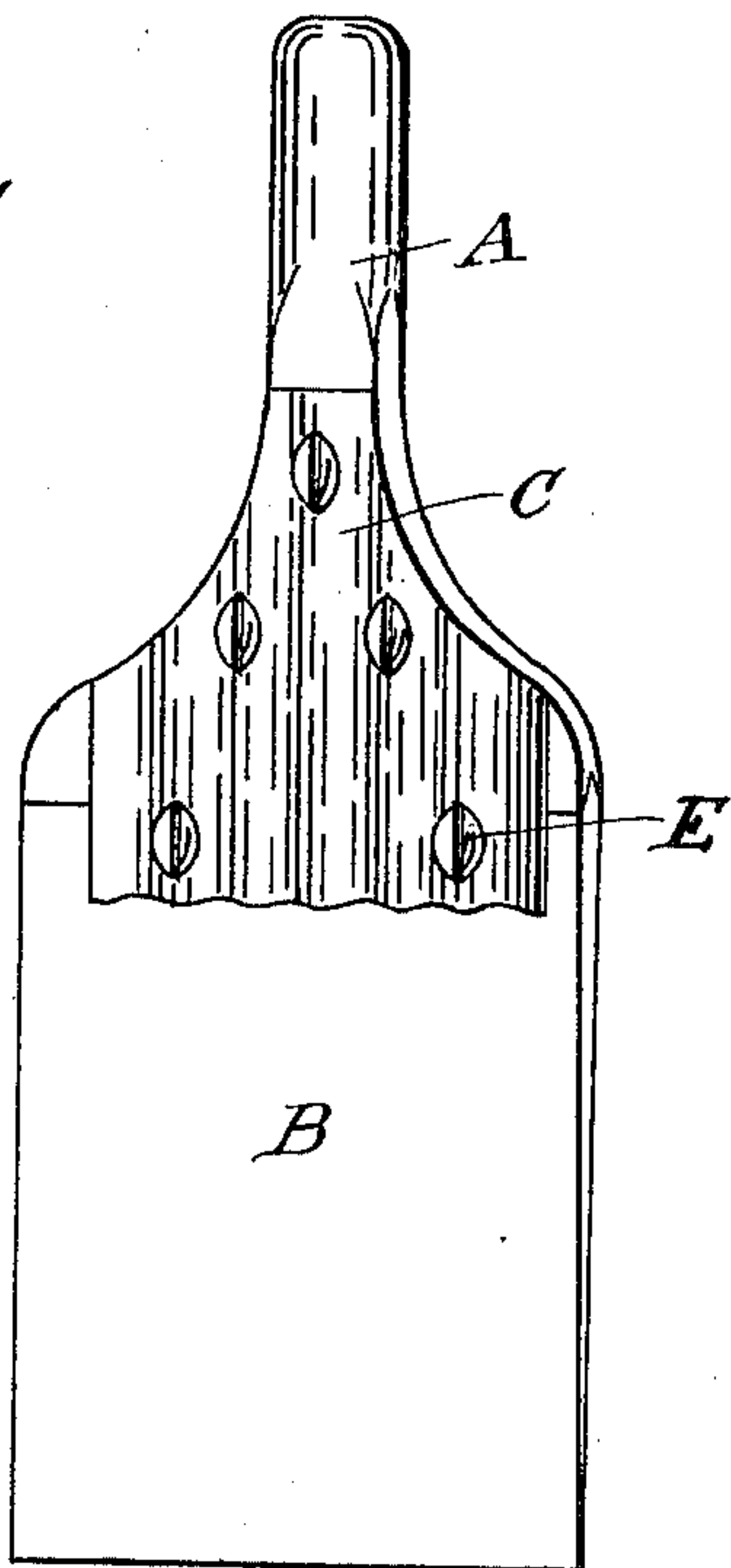


Fig. 2.

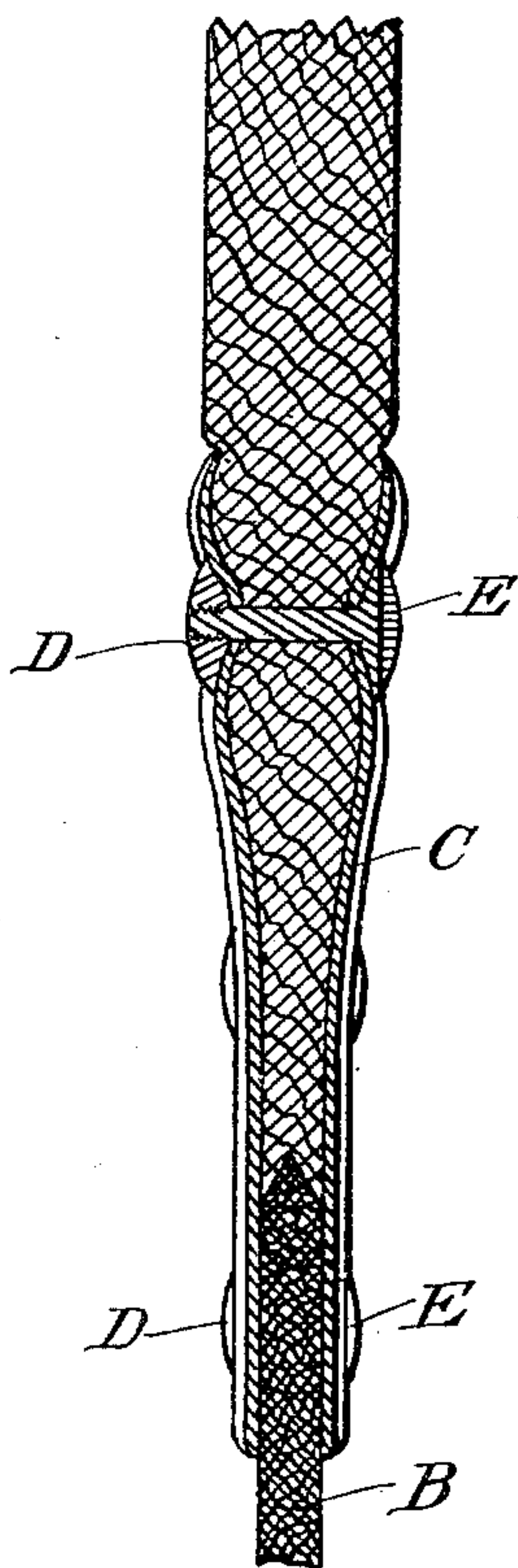
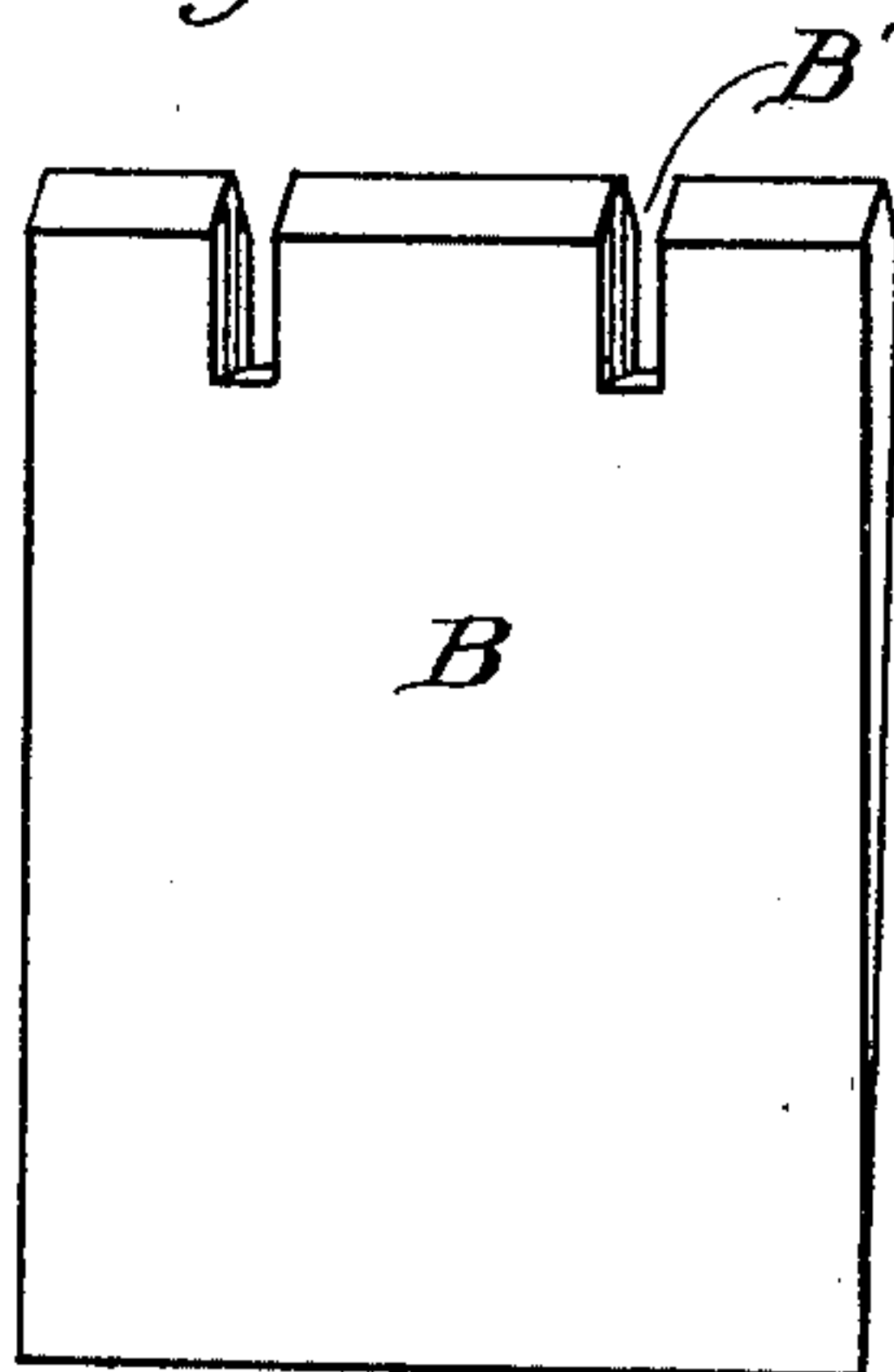


Fig. 3.



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UNITED STATES PATENT OFFICE.

CORNELIUS STOUT, OF POMONA, CALIFORNIA.

SUGAR-PADDLE.

SPECIFICATION forming part of Letters Patent No. 697,183, dated April 8, 1902.

Application filed January 8, 1901. Serial No. 42,568. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS STOUT, a citizen of the United States, residing at Pomona, in the county of Los Angeles and State of California, have invented new and useful Improvements in Paddles Used in Making Sugar, of which the following is a specification.

My invention consists in providing the specific devices herein shown and described, and set forth in the claims, to remove a blade from the paddle and to substitute a new one, whereby the blade when worn out can be replaced with a new one without providing a new paddle. I accomplish this object by means of the device shown in the accompanying drawings, in which—

Figure 1 is a plan view of a paddle embodying my invention. Fig. 2 is an enlarged central longitudinal section of portions of the blade and handle. Fig. 3 is a plan of the blade detached from the handle.

In the manufacture of sugar it accumulates in large quantities on the centrifugal separator and has to be removed therefrom by paddles. The blades B of these paddles are made of wood, because if made of metal they would mar the separator, and the blades are rapidly worn out in consequence. When the blades are half worn out, the paddles are thrown away and new ones substituted. The principal cost in the manufacture of these paddles is in the construction of the handle A. By my improvement the handle is saved and a new blade is inserted therein. There are two sizes usually used, the small one having a ten-inch blade and four-inch handle, the large one being about a twelve-inch blade and a twelve-inch handle, the short one being adapted for use with one hand and the larger one for use with both hands. It will be seen that the wood should project beyond the metal on the edges, so as to prevent the metal coming in contact with the separator. The clamps C are made of sheet-steel five inches wide and about six inches long and should be made of No. 20 sheet-steel or thereabout. It is pressed to form corrugations to stiffen same and tinned to prevent rusting. I have shown a peculiar-shaped nut D, elliptical in main outline, used in clamping the corrugated sheet-steel to the wood which connects the blade to the handle, the purpose in

giving this shape to the nut being to prevent any part of the screw from projecting through the nut and at the same time afford sufficient bearing-surface in the threaded shank of the screw E to securely hold the screw and nut together when clamping the blade and handle together and to prevent the nut from being turned and accidentally working off. When a blade is worn out and of no further use, the screws are unscrewed and the worn blade removed and a new one inserted, when the clamps are tightly screwed together, which unites the handle and the blade.

The wooden blade B is wedge-shaped, being large at the butt-end, so that when the lower end of the clamps C are screwed tightly together the blade will be firmly held against any longitudinal movement in the clamps. Any lateral movement therein will be prevented, owing to the fact that the openings B' in the blade will permit it to pass beyond and on both sides of the bolts E. The butt-end of the blade is V-shaped and adapted to fit in a depression in the handle formed to receive the V-shaped butt of the blade. By this construction it will be manifest that I obtain a simple, practicable paddle adapted for use in making sugar and in which the worn blade can be easily replaced by a new blade.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sugar-paddle comprising a handle, having fluted clamps secured thereon, the clamps extending beyond the handle and carrying in the extended portion thereof binding-screws to detachably secure therein a blade, a wooden blade adapted to be secured within said clamps, the said blade being wedge-shaped, large at the butt and tapering therefrom to an edge at the point of the blade, longitudinal openings therein extending from the butt in the direction of the point of the blade to permit the butt of the blade to be moved past the binding-screws into the clamps and against the handle.

2. A sugar-paddle, comprising a handle and wooden blade and means to secure the blade to the handle and to replace the blade with a new one when it becomes worn and useless, comprising corrugated clamps secured to the

handle, having portions extending beyond the handle, binding-screws in said extended portions, the handle having a V - shaped socket for the reception of the butt of the 5 blade, the blades being wedge-shaped and having at the butt-end a V-shaped projection adapted to fit into the socket in the handle.

3. A paddle for use in sugar-making, having a handle provided with means to secure 10 thereto wooden blades and to detach therefrom said blades when they become worn and useless comprising the handle A, having V-shaped socket for the reception of the butt of the blade, the corrugated clamp C attached 15 thereto, and having blade-engaging portions thereof, extending beyond the handle, the

said extending portions carrying binding-screws for securing the blade therein, the binding-screws E in said clamps, the wedge-shaped wooden blade B having openings B' 20 in the butt thereof to receive the binding-screws, the blade being V-shaped at the butt to fit in the V-shaped socket in the handle, substantially as shown and described.

In witness that I claim the foregoing I have 25 hereunto subscribed my name this 28th day of December, 1900.

CORNELIUS STOUT.

Witnesses:

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