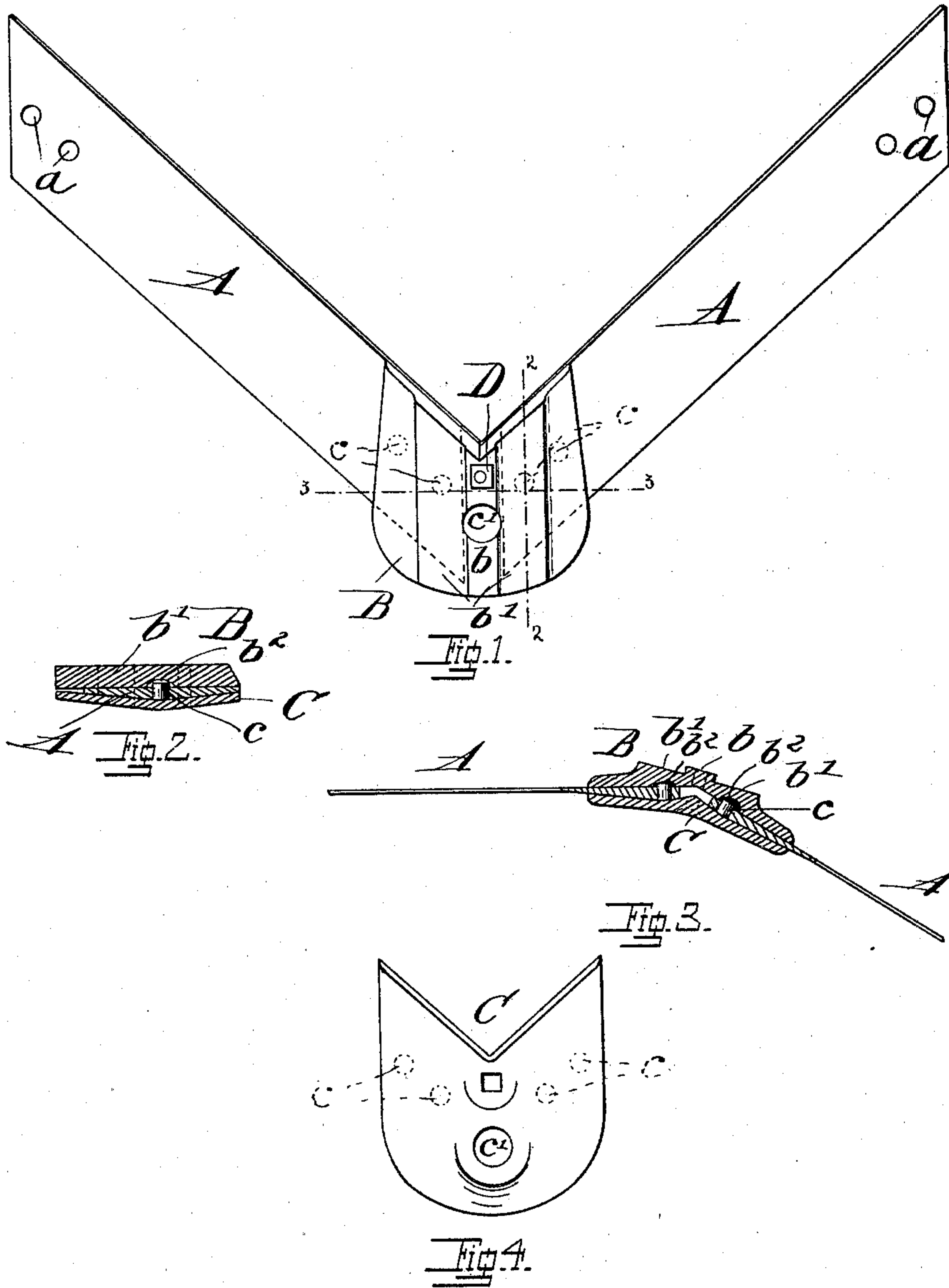


(No Model.)

H. D. TERRELL.
HEEL SWEEP FOR PLOWS.

No. 545,041.

Patented Aug. 20, 1895.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY DENTON TERRELL, OF COVINGTON, GEORGIA.

HEEL-SWEEP FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 545,041, dated August 20, 1895.

Application filed November 24, 1894. Serial No. 529,855. (No model.)

To all whom it may concern:

Be it known that I, HENRY DENTON TERRELL, a citizen of the United States of America, and a resident of Covington, in the county of Newton and State of Georgia, have invented a certain new and useful Heel-Sweep for Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The invention is illustrated in the accompanying drawings, as follows:

Figure 1 is a face view of the device as seen from the front end of the plow. Fig. 2 is a section on the line 2 2, Fig. 1. Fig. 3 is a section on the line 3 3, Fig. 1. Fig. 4 is a back view of the back plate of the clamp.

In these figures like reference-characters are uniformly employed in designating corresponding elements of construction in all the views.

A are blades, which are of cross-sectional contour, as shown in Fig. 2, and have their ends beveled parallel to each other, as seen in Fig. 1, whereby they may be reversed to present the other working edge when one is worn. Their cross-sectional shape is thicker in the middle, tapering thinner toward each edge, whereby they are stiff and at the same time present a thin cutting-edge.

B is the front plate, which is shaped as shown in Fig. 1, being provided with rib *b*, which engages the foot by entering at its back side and so prevents improper movement thereon of the heel-sweep, said plate being rounded out, as shown in Fig. 3, to prevent friction of the soil in passing the same. The elevation *b'* on the front side of the plate B also tends to hold the sweep in place on the foot. The said plate is formed of two wings, which stand at an angle to each other equal to the angle of the blades A when in place, with their flat sides resting against the back side of either wing of the plate.

C is the back plate of the clamp, which conforms on its face to the shape of the beveled back side of the blades A, and is provided with lugs *c*, which enter the holes *a* in the

blades, and together with the conjunction of the beveled back side of the blades and the concaved front face of the plate co-operate to hold the said blades securely and rigidly in place. There should be at least two lugs on each wing of the plate C, as that number is required to properly hold the blade. In order to strengthen these lugs, depressions *b²* will be cut in the face of the plate B in correlative positions, into which the ends of the said lugs will enter when the parts are assembled. A bolt D passes through both plates B and C, a suitable hole being made in each for that purpose, correlatively situated, while a hole *c'* serves for the heel-bolt in clamping the sweep to the foot of the plow, the plates B and C being also thereby firmly compressed onto the blades A. The bolt D serves simply to hold the parts in the proper relative positions when the device is not clamped on the plow, although of course the assistance thereof to the heel-bolt is considerable, but not absolutely necessary to the proper operation of the device.

The greatest difficulty with devices of this class is to prevent bending of the wrought sweeps when made integrally throughout and the breaking of the casings when a center clamp was used; but with this device the rib and shape of the plates forming the clamp obviously make same very strong and capable of resisting greater strains than are ordinarily applied.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a heel-sweep for plows, wings formed of reversible plates thicker along their middle portions and beveled thinner to each edge, a clamp consisting of a front-plate adapted to be bolted to the foot of a plow and a back plate adapted to be bolted to said front plate with the said wings interposed and strengthened and caused to fit the beveled faces of the said wings by facial concaving, substantially as and for the purpose specified.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

HENRY DENTON TERRELL.

Witnesses:

J. L. WHITEHEAD,

J. B. DAVIS, Jr.