

(No Model.)

W. M. BOWMAN.

ASH TRAY OR PAN.

No. 379,195.

Patented Mar. 6, 1888.

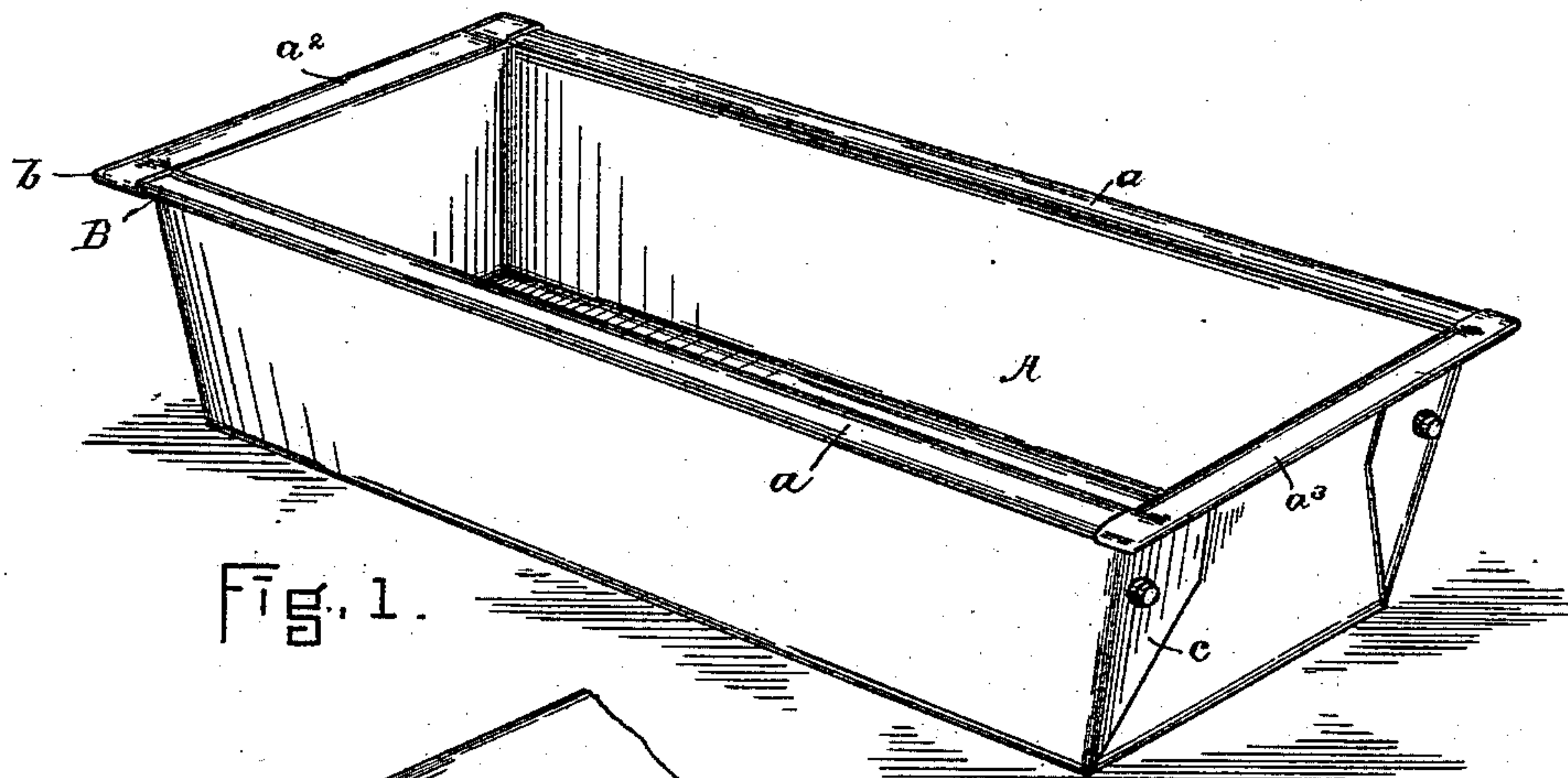


Fig. 1.

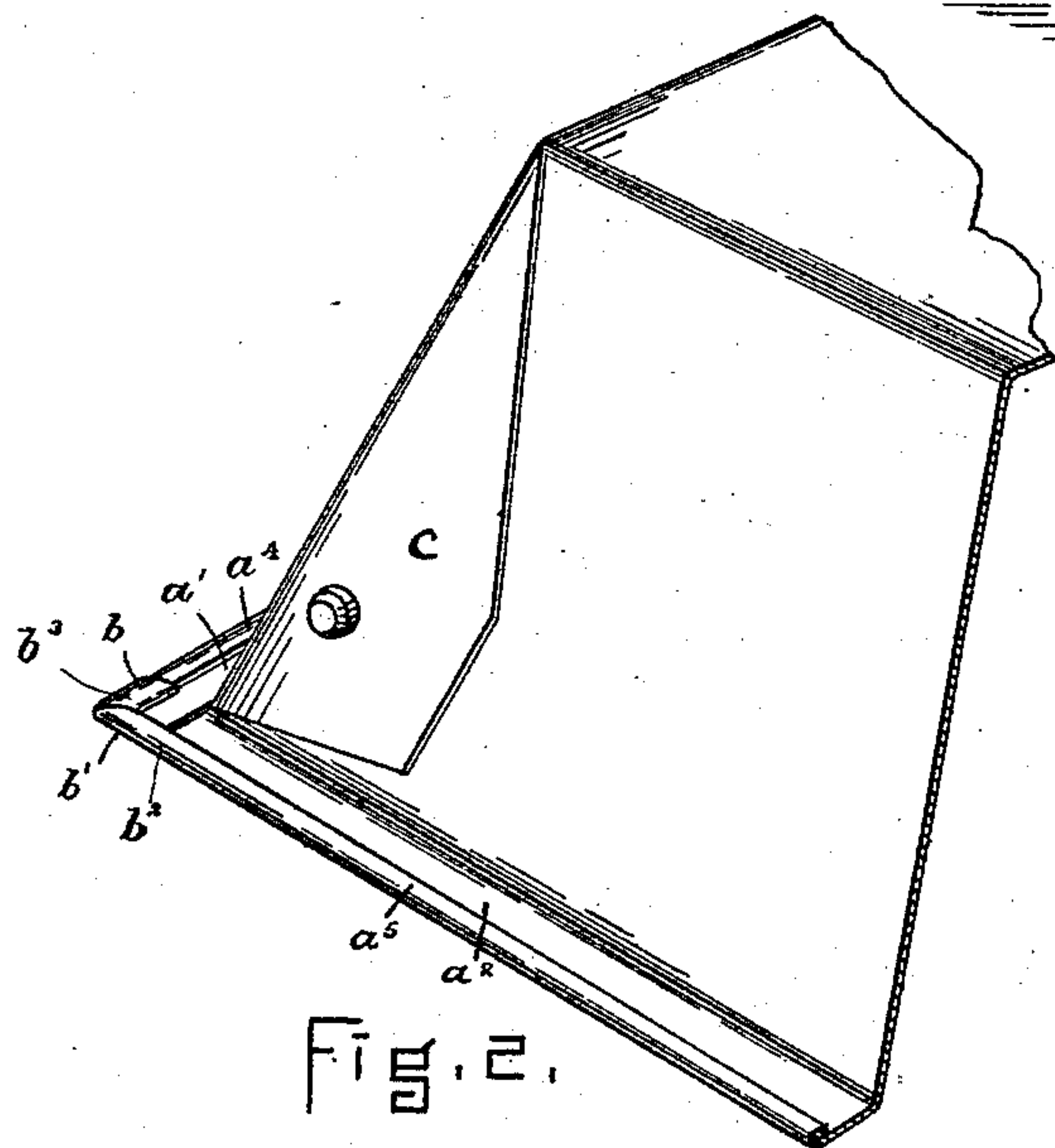


Fig. 2.

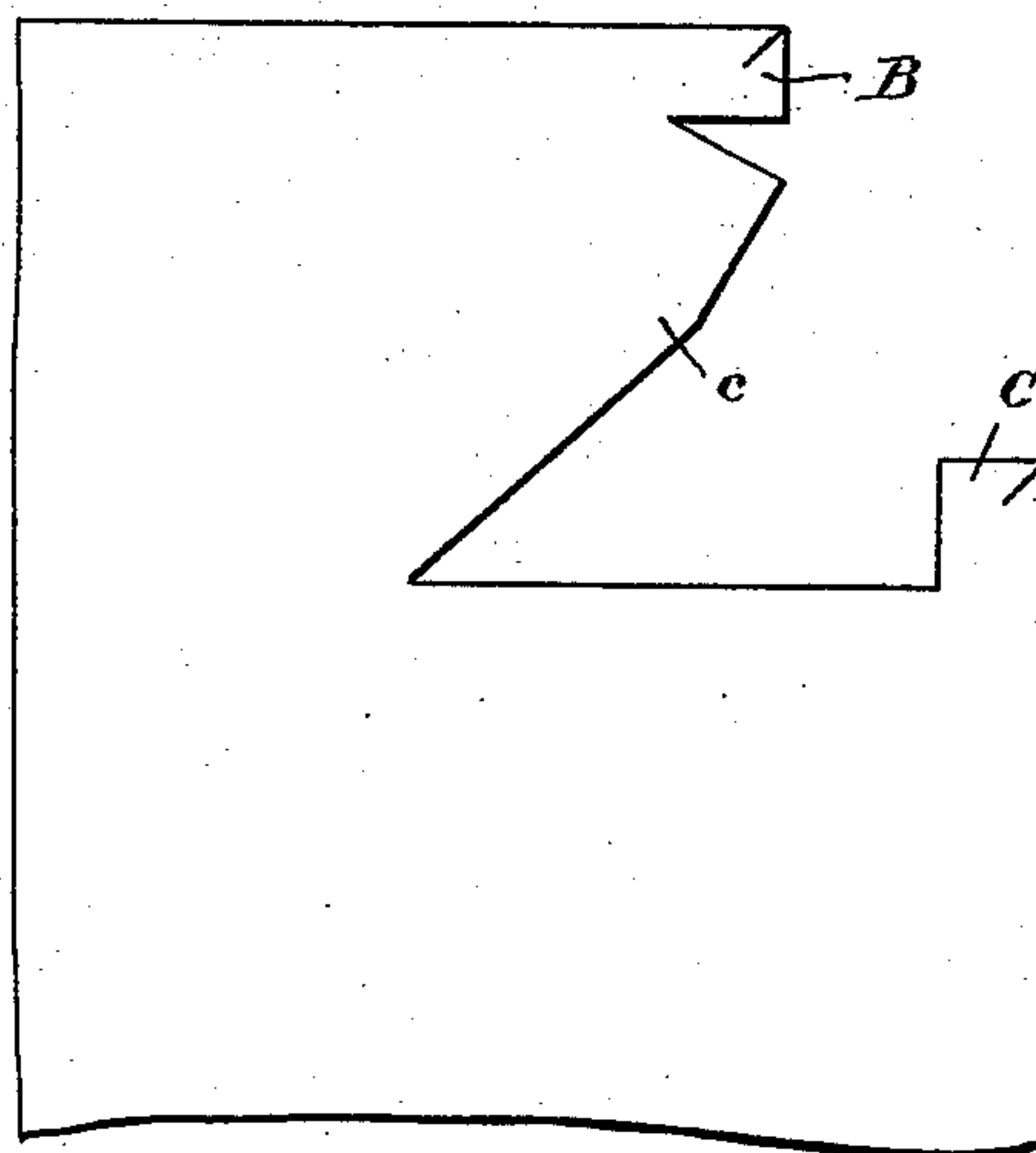


Fig. 3.

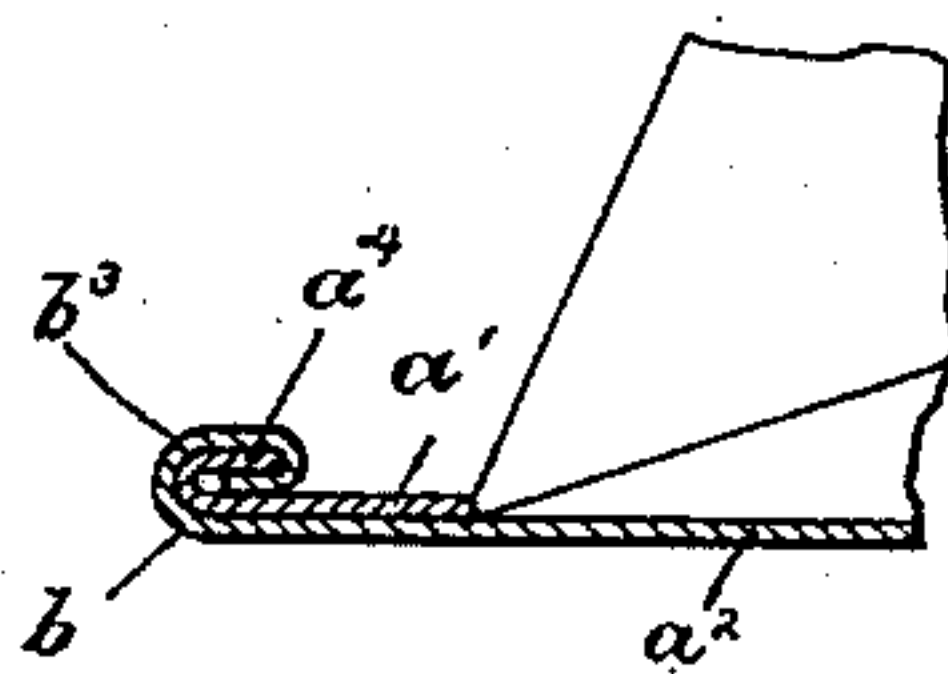


Fig. 4.

WITNESSES.

J. M. Dolan.

Fred. B. Dolan.

INVENTOR

Wm. M. Bowman.

by his atty

Charles + Raymond.

UNITED STATES PATENT OFFICE.

WILLIAM M. BOWMAN, OF TAUNTON, MASSACHUSETTS.

ASH TRAY OR PAN.

SPECIFICATION forming part of Letters Patent No. 379,195, dated March 6, 1888.

Application filed April 1, 1887. Serial No. 233,295. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. BOWMAN, of Taunton, in the county of Bristol and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Ash Trays or Pans, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature, in which—

Figure 1 is a view in perspective of an ash-pan having the features of my invention. Fig. 2 is a view of one corner thereof inverted and enlarged to further represent my invention. Fig. 3 is a plan view of one corner of the blank from which the pan is formed, and Fig. 4 is a cross-section through the flange of the pan.

It is desirable for many reasons that ash-pans be made of sheet metal rather than of cast metal; but there has been heretofore an objection to the use of sheet metal for this purpose, as it has not been found possible to economically fasten the corners of the flanges together in a substantial and solid way; and my invention relates to a sheet-metal ash-pan having the corners of its flanges interlocked and strengthened as hereinafter specified, and also, in an ash-pan having the corners of its flanges thus formed, the employment of re-enforced flanges extending from said corners, whereby there is obtained a strong, stiff, and substantial projecting rim for suspending the ash-pan when in place and for maintaining its form.

In producing my invention I take sheet metal of the proper thickness, and first make it of suitable shape for bending and folding into the desired form, and also to enable me to make the interlocking joint at the corner of the flanges. A corner of this blank as thus prepared is represented in Fig. 3. Enough metal must be used to permit the edges of the blank which form the flanges of the pan to be bent or folded back upon itself to re-enforce and stiffen the flanges.

Referring to the drawings, A represents the complete ash-pan, a a' the side flanges, and a^2 a^3 the end flanges. The flanges project outward from the sides and ends of the pan, and each side flange is formed at each end B

to extend beyond each end of the pan, and to be covered and overlapped upon its side edge, b , and its end edge, b' , by the side b^2 and end b^3 of the end flanges, which are extended sufficiently to thus embrace and receive the projecting ends of the side flanges. This necessitates that the blank should be formed at its corners substantially as represented in Fig. 3, to provide the extension B of the side flange and the locking-extension C of the end flange. The part c of the blank corner is folded against the end walls of the pan, as represented in Fig. 1. This interlocking of the flanges a' a^2 at their corners provides a very stiff and rigid construction. It is desirable that the edge a^4 of each of the side flanges, a' , be bent under the flange and back upon it to form an edge re-enforce for the flange, and also to stiffen it before the ends b of the end flanges are turned thereon; also, that the edges a^5 of the end flanges be folded throughout the length of the flanges downward and inward against the under surface of the said flanges, so as to not only cover the projecting ends b of the said flanges, but also to act as a re-enforce for the parts of the end flanges between the corners. This construction provides a strong and desirable joint at the corners, and also a rigid flange extending from all sides of the pan at the top, and enables me to use sheet metal of lighter weight than would be ordinarily employed for this purpose.

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

The sheet-metal ash-pan having the side flanges, a a' , and the end flanges, a^2 a^3 , stiffened their entire length, folding their edges back and upon themselves, and the end sections of which are extended beyond the corners of the pan to overlap each other, the edges of the uppermost lapping section being bent about the sides and ends of the under section at each corner, as and for the purposes specified.

WILLIAM M. BOWMAN.

Witnesses:

GEO. W. BARROWS,
CHAS. F. BAKER.