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S. M. HEULINGS.
CASE FILLER.
APPLICATION FILED JUNE 28, 1907.

Patented Mar. 15, 1910.

FIG. I.

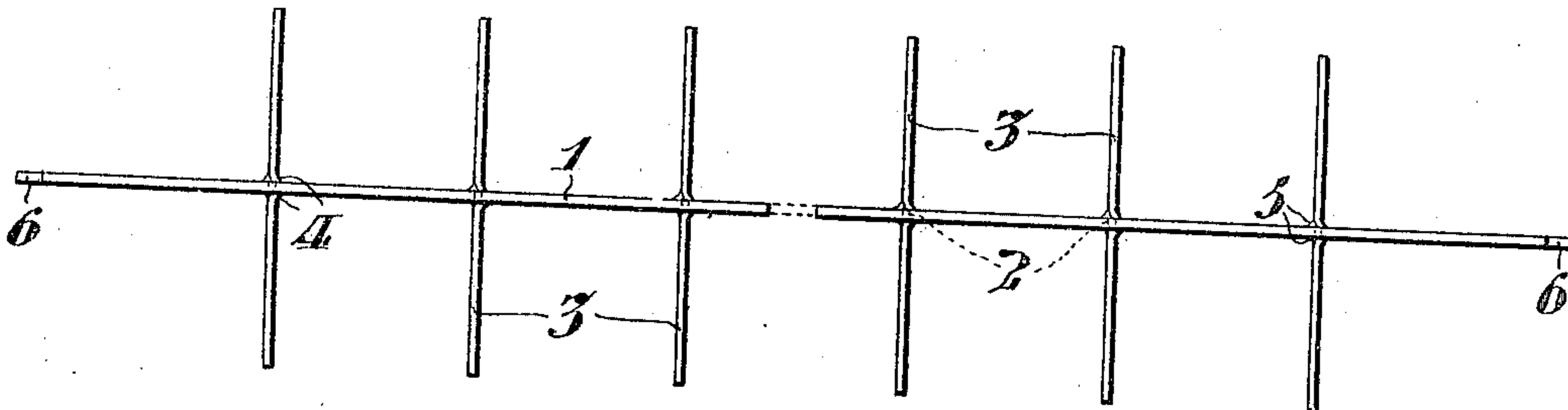


FIG. II.

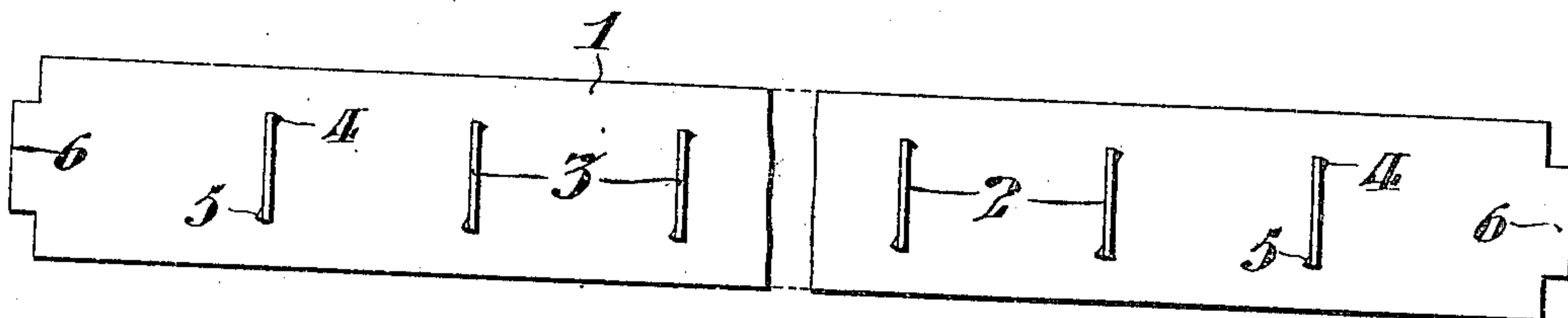
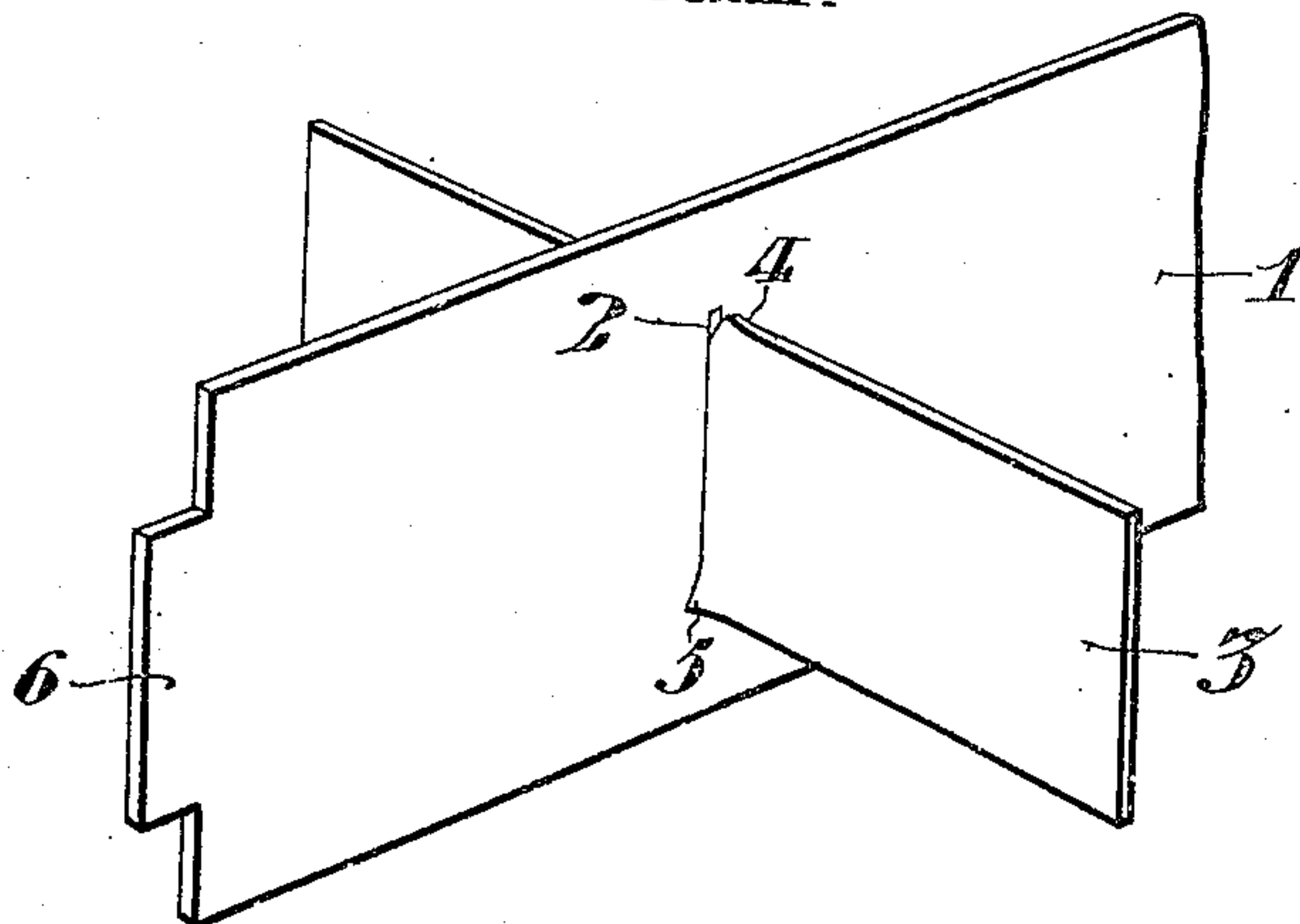


FIG. III.



WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL M. HEULINGS, OF HADDONFIELD, NEW JERSEY, ASSIGNOR TO STAR MILK COOLER COMPANY, OF HADDONFIELD, NEW JERSEY, A CORPORATION OF NEW JERSEY.

CASE-FILLER.

952,246.

Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed June 28, 1907. Serial No. 381,285.

To all whom it may concern:

Be it known that I, SAMUEL M. HEULINGS, of Haddonfield, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Case-Fillers, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to devices arranged to fit in a case or box and to form separate compartments for articles packed therein.

An object of my invention is to provide a filler which may be employed with particular advantage in a case for transporting milk bottles, although the device may be employed in other cases.

My invention comprises a longitudinal strip of metal having a series of straight transverse slots, terminating intermediate of its edges, and each containing a transversely extending flat rectangular strip of metal corresponding in cross section to said transverse slot, and whose edges are swaged against longitudinal strip to hold it in place, without removal of the portion of the transverse strip which fills the slot of the longitudinal strip.

My invention includes the various novel features of construction and arrangement hereinafter more definitely specified and claimed.

In the accompanying drawings, Figure 1 is a plan view of a case filler constructed in accordance with my invention. Fig. II, is a side elevation of the structure shown in Fig. I. Fig. III, is a perspective view of a fragment of said filler.

In said drawings, the longitudinal strip 1, consists of a flat strip of metal of appropriate length and breadth. It is pierced by a series of similar straight transverse slots 2, all of which terminate intermediate of its edges, the said slots being spaced at equal distances apart. A series of transverse strips 3, are inserted, one in each of the slots 2. Said transverse strips are plane flat rectangular pieces of metal of which the cross section corresponds precisely in size to the transverse slots of the longitudinal piece through which they pass.

In order to hold the structure together the upper and lower edges of the transverse strips are swaged on both sides of the longitudinal strip, so as to form barbs 4, and 5, (there being similar barbs on the side not

seen in Fig. III), which barbs preferably extend in opposite directions, either considered with reference to the two edges of the strip 3, or the two sides of the strip 1.

The swaging is accomplished by a sharp blow of a tool such as a chisel, whereby the portion of the edge of the strip 3, which is to form the barbs, is partially severed from the part of the strip 3, which rests within and fills the slot 2; said partial severance occurring on both sides of the small piece of metal which is thus left to fill up the slot 2. In this way without resorting to any irregularity in the shape of the slots, or of the transverse strips, I produce a structure in which it is not only impossible for the transverse strips to be withdrawn from their slots, but also in which the transverse strips cannot be displaced as regards their vertical relation to the longitudinal strip through which they pass. This is because the swaging of the edges of transverse strips still leaves the slots filled with metal.

As the strip 1 is arranged to be supported by suitable grooves formed in the case or box, for which the filler is intended, and as it is desirable that said grooves do not extend to the bottom of said case; the tongues 6, are formed on the ends of said strip 1, so that its lower edge may extend substantially to the bottom of the case, and, as said tongues 5, are disposed centrally with respect to the height of the strip 1, it may be seen that the structure is reversible.

It may be noted that the only preliminary preparation of the structural parts is the slotting and shaping of the main strip 1; the lateral strips 3, may be simply cut off in suitable lengths from a continuous strip and inserted through their respective slots 2, and their edges swaged against the slotted strips 1, to rigidly secure said strips together.

I do not desire to limit myself to the precise details of construction and arrangement herein set forth, as it is obvious that various modifications may be made therein without departing from the essential features of my invention, thus the number of both the longitudinal strips and the transverse strips, may vary, as well as their exact relations to each other.

I claim:—

1. In a case filler, the combination of a longitudinal strip provided with straight

transverse slots terminating intermediate of its edges; flat transverse strips of corresponding cross section extending through said slots; both edges of said transverse strips being swaged over on both sides of the longitudinal strip to hold them in place without removal of the portion of the transverse strip which fills the slot.

2. In a case filler, the combination of a longitudinal strip provided with straight transverse slots terminating intermediate of its edges; flat transverse strips of corresponding cross section extending through

said slots; both edges of said transverse strips being swaged over in opposite directions on both sides of said longitudinal strip, with production of engaging barbs, the metal between said engaging barbs remaining *in situ* within the slots. 15

In testimony whereof, I have hereunto signed my name, at Philadelphia, Pennsylvania this twenty-sixth day of June 1907. 20

SAMUEL M. HEULINGS.

Witnesses:

JAMES H. BELL,
E. L. FULLERTON.