No. 845,093. PATENTED FEB. 26, 1907.

M. F. JARRETT.

ANNEALING BOX.

APPLICATION FILED JAN. 8, 1906.

Fig. 1.

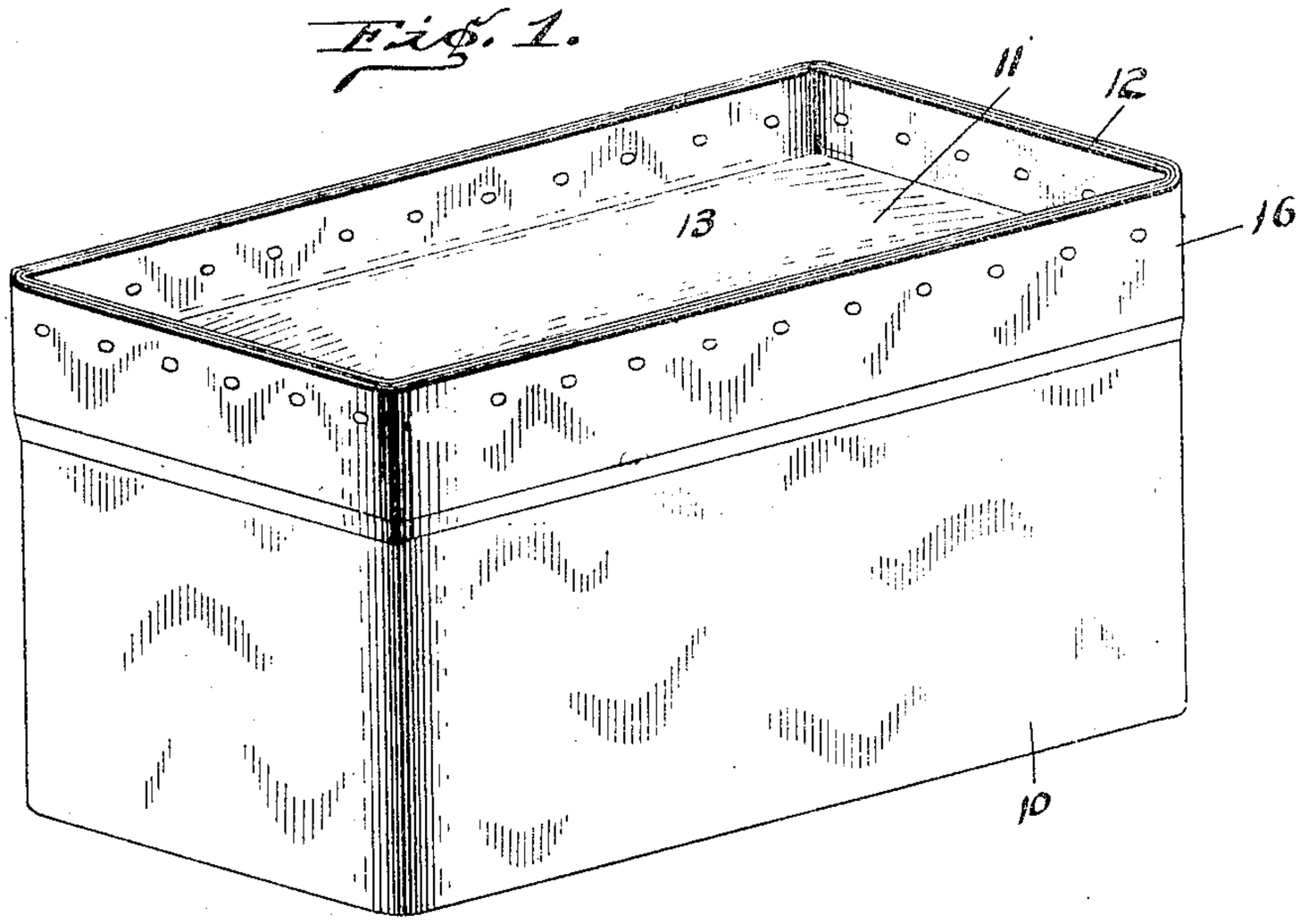
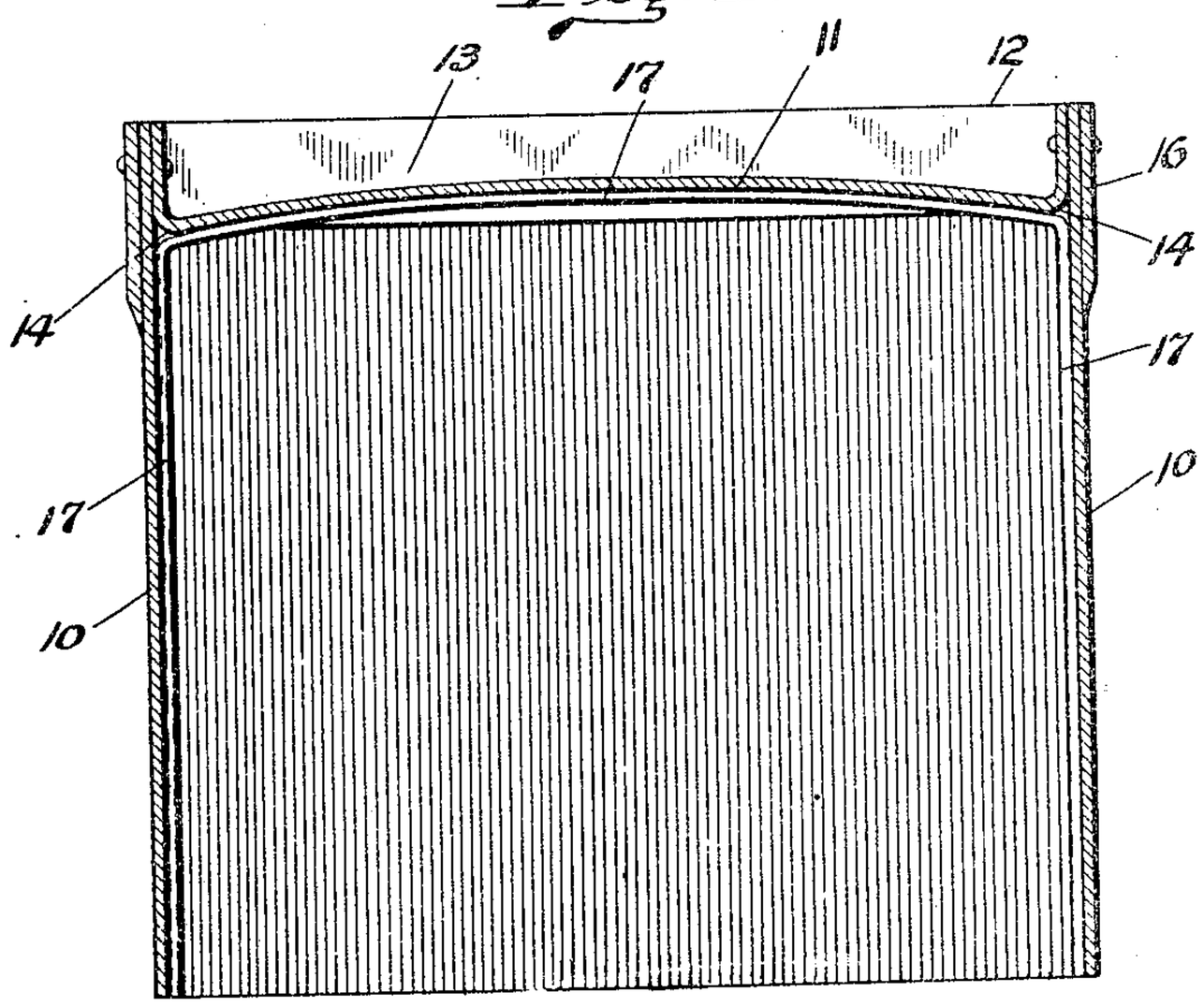


Fig. 2.



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UNITED STATES PATENT OFFICE.

MORRIS F. JARRETT, OF ANDERSON, INDIANA, ASSIGNOR OF ONE-HALF TO ELLIS C. CARPENTER, OF ANDERSON, INDIANA.

ANNEALING-BOX.

No. 845,093. Specification of Letters Patent. Patented Feb. 26, 1907.

Application filed January 8, 1906. Serial No. 295,031.

To all whom it may concern:

Be it known that I, MORRIS F. JARRETT, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Annealing-Boxes, of which the following is a specification.

In the manufacture of tin and other similar plate the black plates after having been rolled are subjected to sufficient heat to anneal them, and for this purpose they are placed in stacks of a suitable number of plates, each stack being covered by an air-tight box, so that the plates will be subjected to the desired heat without becoming oxidized. Such boxes heretofore have been made of a strip or sheet of metal bent to form the four sides of a box, the top being formed by an inverted-cup-shaped plate, the edges of which are downturned and lap over the upper edges of the side walls of the box, the parts being welded together in that position. In such a box it is found that in course of time the entire top is eaten away by the flames and the side walls are eaten away just below the lower edge of the top and the top is burned out at the point where its edges are downturned.

The object of my present invention is to produce an annealing-box of such character that the turned portions of the cap may be protected against the enormous heat of the furnace, thus prolonging the life of the boxes.

The accompanying drawings illustrate my invention.

Figure 1 is a perspective view of my improved box; Fig. 2, a transverse section.

In the drawings, 10 indicates the side walls of the box, said side walls being formed in the usual manner of a single sheet bent to form the four walls. The top of my box consists of a sheet 11, which is cupped to form upturned edges 12, which fit inside of the upper ends of the side walls 10 and are welded thereto, the top thus forming a cup 13, in which may be placed a sufficient layer or body of sand to properly protect the top of the box, this layer of sand protecting the bends 14 of the cap and leaving exposed only the upper edges of the side walls 10 and the cap edges 12.

By this arrangement it becomes much more easy to weld the parts 12 to the upper edges of the side walls 10, and the exposed upper edges may be eaten away very considerably without destroying the usefulness of the box. As a further protection for the upper closed end of the box I weld to the outside of the walls 10, at the upper edges thereof, a band 16, said band extending down below the adjacent portions of the cap 11.

In the drawings I have shown the metal portion of cap 11 arched upward and supported by an internal brace member 17, which is secured to the inside of the walls 10 in any suitable manner.

The band 16 should properly be beveled at its lower edge in order that no sharp pocket may be formed between the edge of the band and the side walls.

I claim as my invention—

An annealing-box comprising side walls, an upwardly-cupped cap fitted within the upper ends of the side walls and welded thereto, and a protecting-band welded to the exterior of the side walls at the upper ends thereof and extending below the adjacent portions of the cupped cap.

In witness whereof I have hereunto set my hand and seal at Anderson, Indiana, this 1st day of January, A. D. 1906.

MORRIS F. JARRETT. [L. S.]

Witnesses:

FANNIE B. MCNAIR,

LILLIAN ELVIN.