H. C. STALLEY.

STORAGE BATTERY PLATE TRAY.

APPLICATION FILED JULY 3, 1919.

1,329,556.

Patented Feb. 3, 1920.

2 SHEETS—SHEET 1.

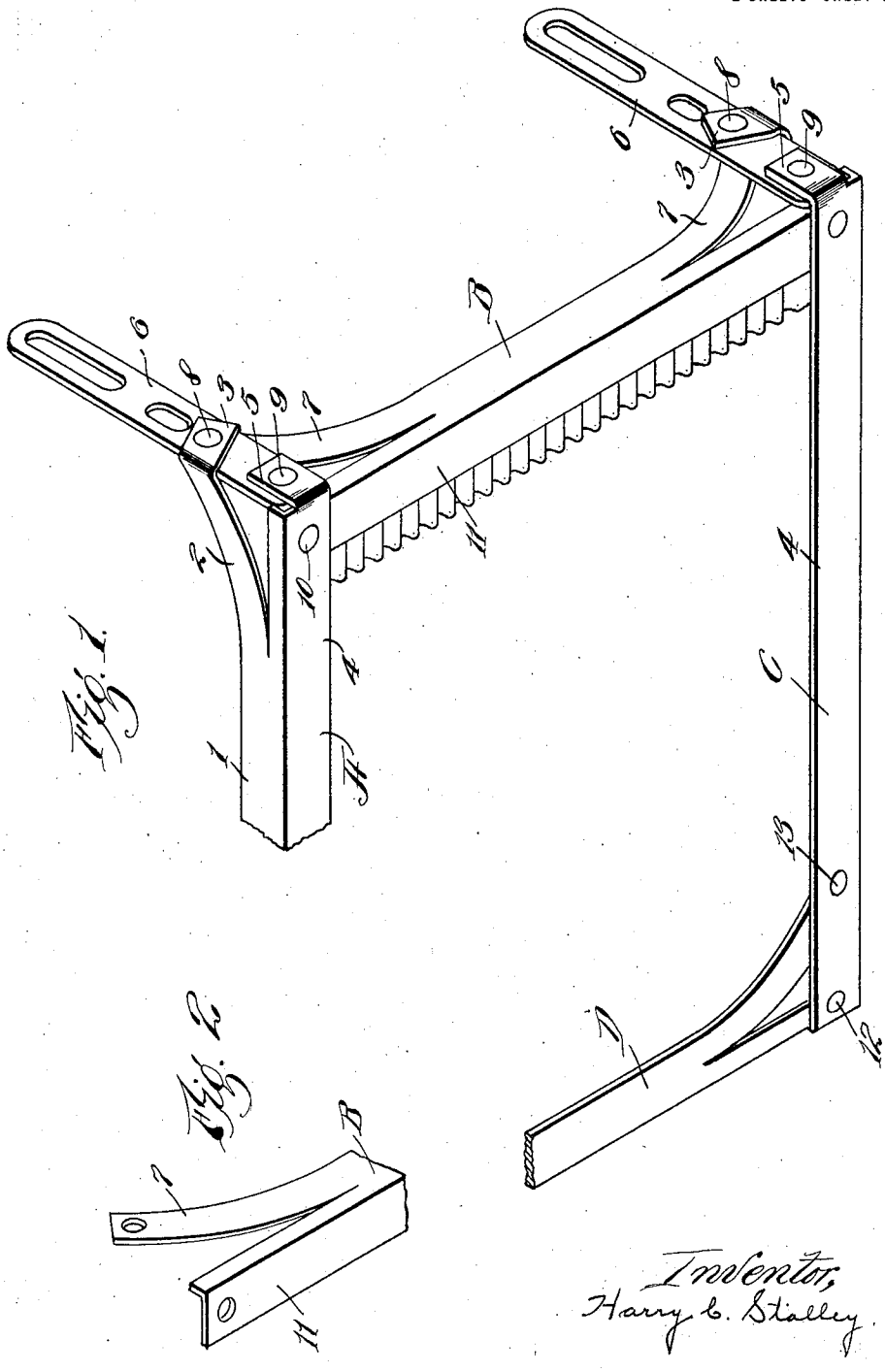


Fig. 1.

Fig. 2.

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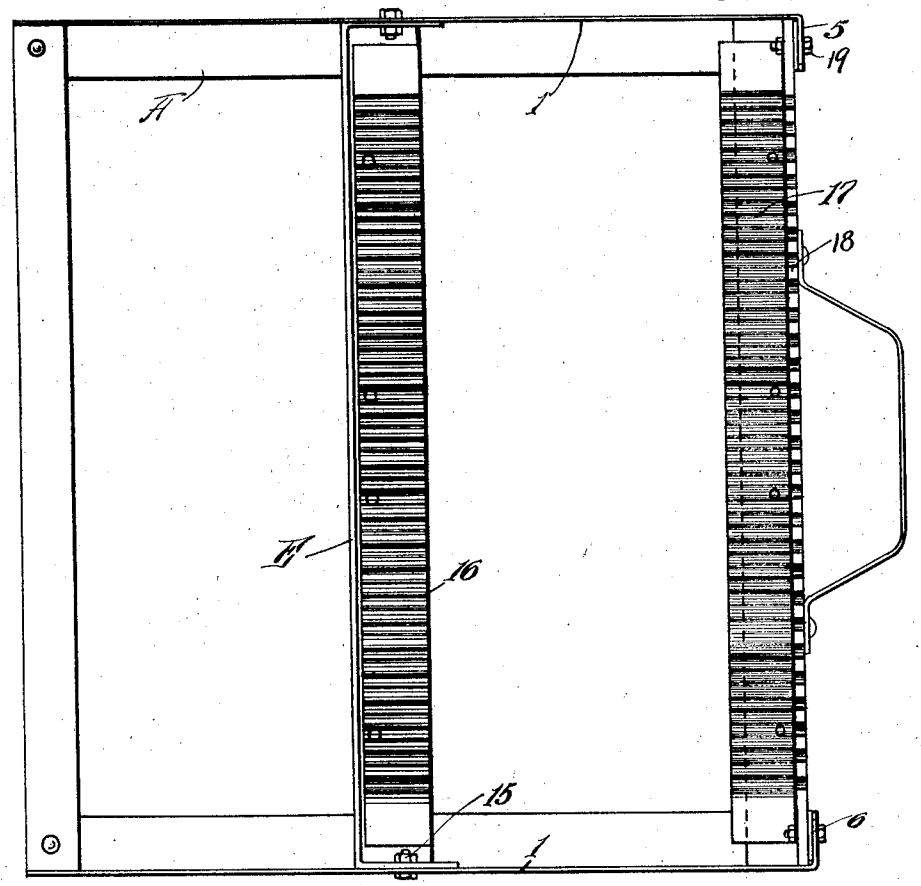


Fig. 3.

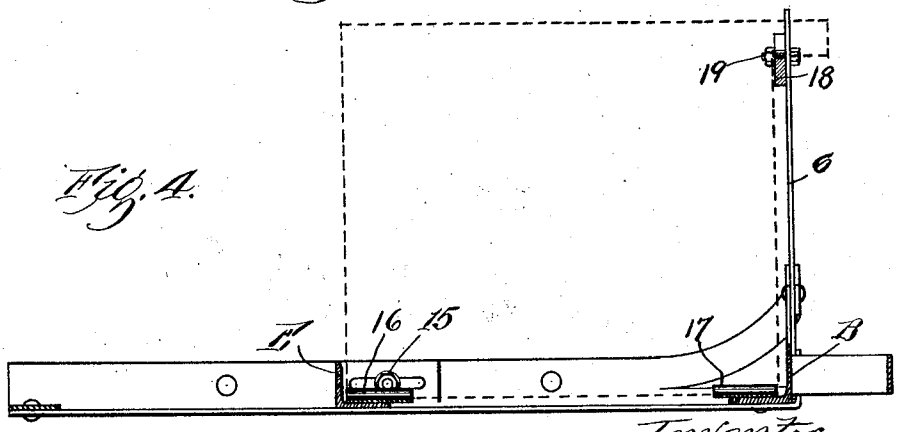


Fig. 4.

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UNITED STATES PATENT OFFICE.

HARRY C. STALLEY, OF EAST CLEVELAND, OHIO.

STORAGE-BATTERY-PLATE TRAY.

1,329,556. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed July 3, 1919. Serial No. 308,524.

To all whom it may concern:

Be it known that I, HARRY C. STALLEY, a citizen of the United States, residing at East Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Storage-Battery-Plate Trays, of which the following is a specification.

This invention relates to frame or tray constructed principally of angle and flat iron strips. It has for its object the provision of a construction whereby the frame may be assembled in such a manner that it will withstand very hard usage. Heretofore frames constructed in a similar manner have been formed of angle irons having at their corners gussets and when completed were not durable and could not withstand heavy strain.

In the drawings forming part of the specification and wherein like reference numerals designate similar parts throughout the various views, Figure 1 is a perspective view of a frame work constructed in accordance with the principles hereinbefore described; Fig. 2 is a detail view of an end of one angle iron; Fig. 3 is a plan view of a complete form used for drying grids of storage battery, and Fig. 4 is a sectional view thereof, a storage battery grid being shown in position in dotted lines.

The frame work comprises three angle irons indicated at A, B and C, the angle irons A and C have one web split longitudinally a short distance away from the corner, the freed portion of the web is then sprung away from the corner as indicated at 2, and at the extreme end of portion 2 is bent as shown at 3 at right angles to itself for a purpose to be described. The remaining web 4 is reduced in width, as shown at 5, and is likewise bent at right angles to itself or in a direction following the web 2. The angle iron B is substantially of the same formation as the irons A and C but instead of having the ends of the webs bent at right angles to themselves the webs are perfectly flat. A piece of metal 6 is secured beneath the portions 3 and 5 of the angle iron A, and extends above the web 7 of the angle iron B, rivets 8 and 9 securely hold the same together. A rivet 10 joins the web 11 of the angle iron B with the webs 4 of the angle irons A and C, and the split portions of the webs form braces between the angle bars and the uprights 6.

The remaining side of the frame work comprises a piece of strap metal D having each of its ends split and one portion thereof sprung away, and is secured to the angle irons A and C by means of rivets 12 and 13.

By the construction shown a very rigid and sturdy frame work is provided, one which will withstand very hard usage, especially in factories, warehouses and the like.

In Figs. 3 and 4 I have shown a frame work adapted to be used for drying grids in storage batteries. The construction is primarily the same as that previously described and in addition has provided a cross angle iron E which is adapted to be clamped between the angle irons A and C by means of bolts 15 and is adjustable therebetween by slots in the pieces A and C.

Angle iron E supports a corrugated spacing device 16 composed preferably of lead, said spacing device being in alinement with a like spacing device 17 secured to the angle iron B. The member is supported by a third spacer 18 which is clamped thereto by means of bolts 19 and is adjustable thereon.

The grids occupy a position as shown in dotted lines in Fig. 4 and when a plurality of them have been placed in the frame work they are then placed in drying ovens. The tray may be provided with a handle 20 attached to the cross piece B.

While I have shown a construction of frame work which is especially adjusted to be used in factories in which storage batteries are made it is evident that a frame work of the above description is capable of use in numerous ways and the invention comprises the construction of the corners and it is not intended to limit the invention to any particular use or otherwise, than indicated in the following claims.

I claim:

1. A frame or tray the base of which consists of a pair of spaced angle side bars and connecting angle end bars, the upper flanges of said bars being vertical and the lower flanges being horizontal, whereby plates may be set edgewise upon said base with their corners fitting in the angles of the end bars,

and uprights at two corners of said frame, the flanges of the side bars being split and bent around the uprights.

2. A carrying frame or tray comprising side bars A and C a cross bar B connecting the same at one end thereof, uprights 6 at the corners, secured to said side and end bars, an adjustable cross bar E between the side bars, spacing strips 16 and 17 attached to the cross bars E and B respectively, and a spacing strip 18 connecting the uprights 6.

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

HARRY C. STALLEY.

Witnesses:
JOHN A. BOMMHARDT,
ROBERT L. BRUCK.