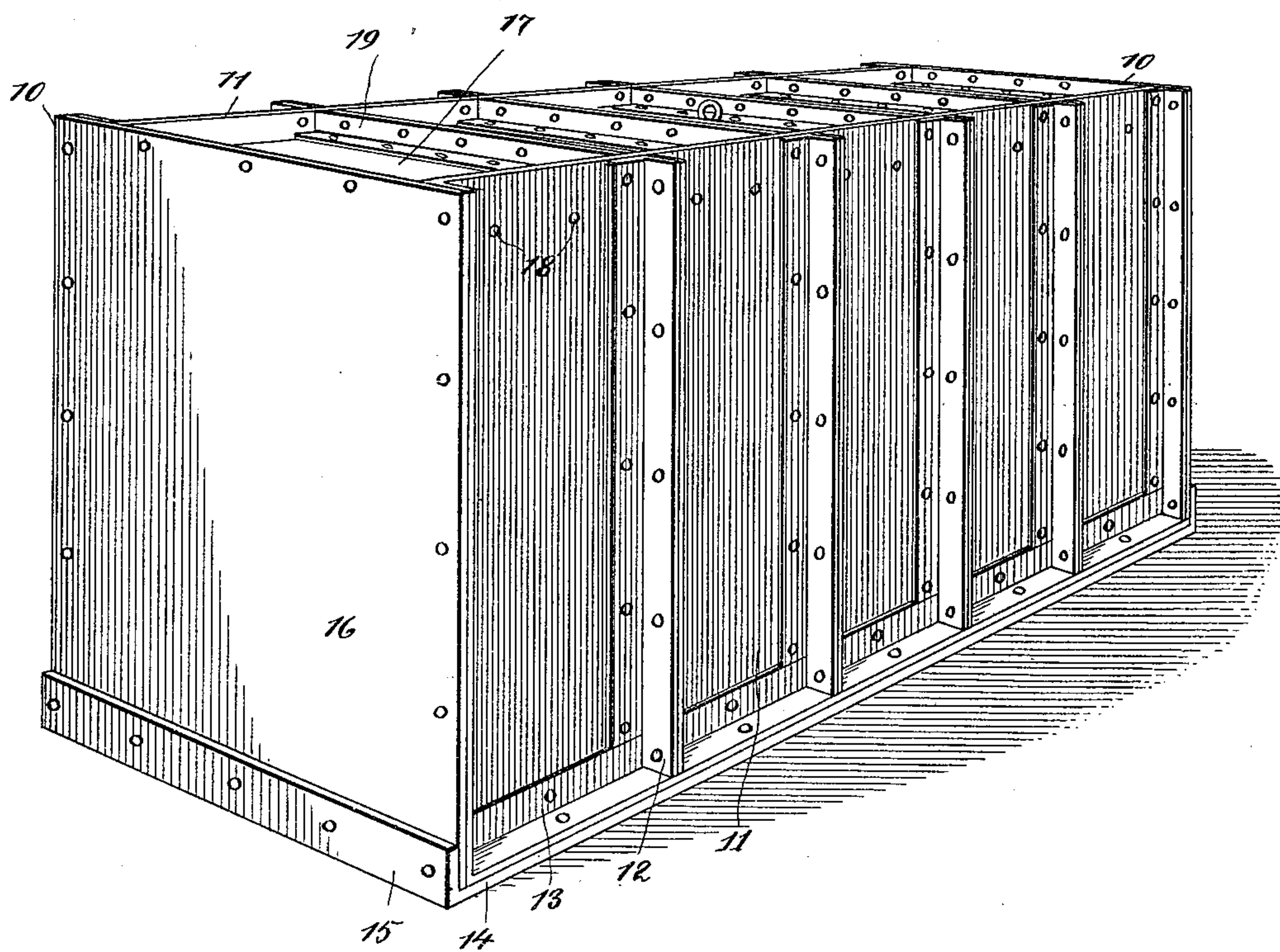


(No Model.)

W. H. BAILEY.
ANNEALING BOX.

No. 405,755.

Patented June 25, 1889.



WITNESSES:

D. C. Reusch.
C. Sedgwick

INVENTOR

W. H. Bailey
BY *Munn & Co.*

ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM H. BAILEY, OF PITTSBURG, PENNSYLVANIA.

ANNEALING-BOX.

SPECIFICATION forming part of Letters Patent No. 405,755, dated June 25, 1889.

Application filed February 19, 1889. Serial No. 300,426. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BAILEY, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented a new
5 and Improved Annealing-Box, of which the
following is a full, clear, and exact description.

This invention relates to the annealing of
iron, the main object of the invention being
to provide a box which will not warp, and
10 which shall be so constructed that the metal
within the box that is being operated upon
shall be protected from the action of oxygen
during the process of annealing.

To the ends named the invention consists
15 in the construction and arrangement of parts,
as will be hereinafter fully explained, and
specifically pointed out in the claim.

Reference is to be had to the accompanying
drawing, forming a part of this specification,
20 in which the figure is a perspective view of
my improved annealing-box.

In the drawing, 10 represents a box which
is made up of side plates 11, that are braced
and supported by T or angle irons 12, said
25 angle-irons being bolted or riveted to place,
other angle-irons 13 being arranged along the
lower edges of the plates 12, which serve as
supports for the bottom plate 14, which plate
is formed with upwardly-extending flanges 15,
30 that are bolted to the end plates 16.

The box-cover 17 rests upon angle-irons that
are upheld within the box by rivets or bolts
18, and this cover is braced by angle or T irons
19, which extend upward, so that their upper
35 edges are about level with the upper edges of

the side plates 11, this construction providing
for the placing of a layer of sand upon the
cover-plate. The covering of sand protects
the cover to a certain extent and prevents its
warping when subjected to the intense heat 40
of the annealing-furnace, and consequently,
the rest of the box being made practically air-
tight, there is little danger of the oxidation of
the articles that are being operated upon.

Having thus described my invention, I claim 45
as new and desire to secure by Letters Pat-
ent—

An annealing-box consisting in the two side
plates 11, end plates 16, having outward-ex-
tending flanges at their ends riveted at their 50
vertical edges to the flanges of the side plates,
a series of vertical outwardly-projecting angle
or T irons 12, riveted to the outer faces of the
side plates between their ends, the bottom
plate 14, projecting at its longitudinal edges 55
beyond the lower edges of the side plates and
having upward-projecting ends 15, riveted to
the lower edges of the end plates, angle-irons
13, riveted to the lower edges of the sides be-
tween angle-irons 12 and to the projecting side 60
edges of the bottom plate, the top plate 17
within the top of the box below its upper
edges and provided with upwardly-projecting
angle or T irons 19 on its upper side, and sup-
ports in the upper end of the box for said 65
cover, substantially as set forth.

WILLIAM H. BAILEY.

Witnesses:

L. B. D. REESE,
GEO. BIRD DUFF.