No. 614,768. Patented Nov. 22, 1898.

F. SCHWEDTMANN.

ANNEALING BOX.

(Application filed Nov. 11, 1897.)

(No Model.)

Fig.1.

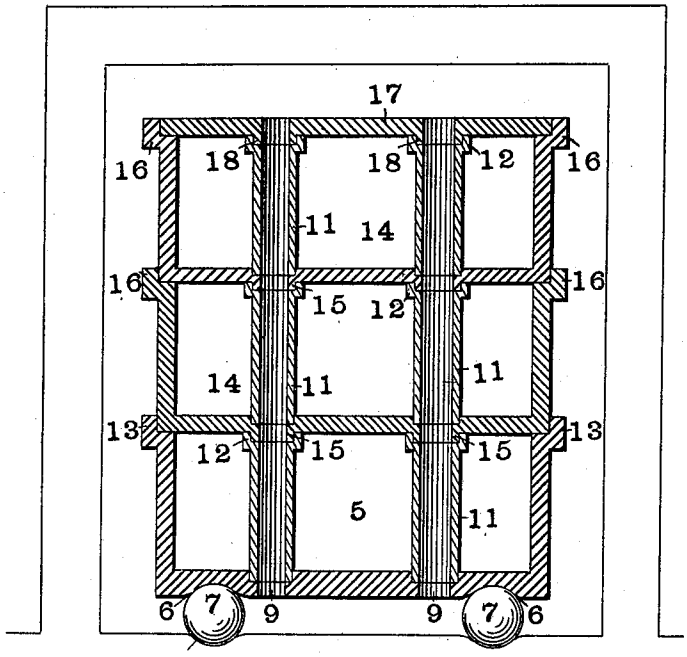


Fig.2.

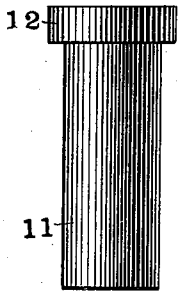


Fig.3.

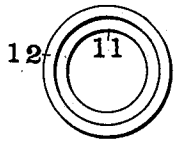
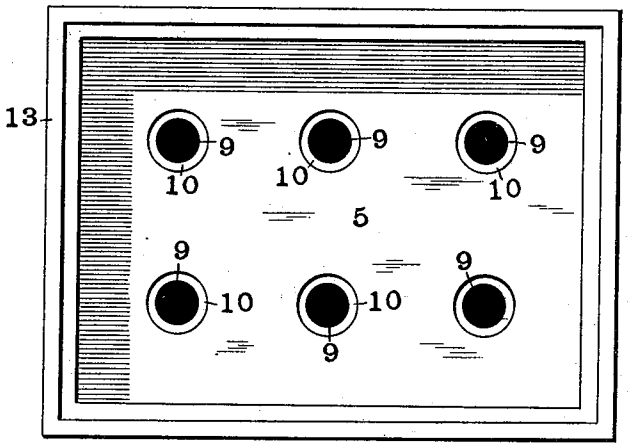


Fig.4.



Witnesses

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UNITED STATES PATENT OFFICE.

FERDINAND SCHWEDTMANN, OF ST. LOUIS, MISSOURI.

ANNEALING-BOX.

SPECIFICATION forming part of Letters Patent No. 614,768, dated November 22, 1898.

Application filed November 11, 1897. Serial No. 658,184. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND SCHWEDTMANN, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Annealing-Box, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of my invention is to construct an annealing-box which can be made to accommodate varying amounts of work and in which the heat will be evenly distributed, and also to so arrange the box that the weight of the contents will be distributed so as to avoid the bending and running together of thin work and sagging of the box.

My box is especially designed for annealing thin iron, such as is used for the laminæ for cores in electrical work, but is not limited to such use.

My invention consists in an annealing-box having two or more separable sections and a plurality of removable flues in each of said sections and adapted to support the bottoms of the several sections.

In the accompanying drawings, which illustrate an annealing-box made in accordance with my invention, Figure 1 is a vertical cross section. Figs. 2 and 3 are a side and an end view, respectively, of one of the flue-sections; and Fig. 4 is a top plan view of one of the sections of the box.

Like marks of reference refer to similar parts in the several views of the drawings.

5 is the lower section of the box. On the under side of the section 5 are two longitudinal grooves 6, along which are placed a number of spheres 7, upon which the box can be rolled into or out of the annealing-furnace. In the bottom of the section 5 are a number of openings 9 of the same diameter as the interior of the flues. Offsets 10 are formed around the openings 9, in which are placed the lower ends of flue-sections 11. On the upper ends of the flue-sections 11 are formed flanges 12 for the reception of flanges hereinafter to be described. Around the top edge of the section 5 is formed a flange 13 for the reception of a second section 14. In the bottom of the section 14 are a number of holes corresponding to the holes 9 in the section 5. Around these holes are offsets similar to the offsets 10. On the bottom of the section 14 are a number of flanges 15, which fit in the flanges 12 on the flue-section 11. Around the top of the section 14 is a flange 16 for the reception of another similar section. As many of the sections 14 may be provided as are required.

17 is a lid or cover which is provided with openings corresponding to the opening 14 and flanges 18 corresponding to the flanges 15.

In using my annealing-box flue-sections 11 are placed in the offsets 10, around the openings 9 in the bottom of the section 5, and the articles to be annealed placed in the section 5. When the section 5 is full, one of the sections 14 is placed in the top of the said section 5, the flanges 15 entering the flanges 12, and additional flue-sections 11 are placed in the offsets in the bottom of the said section 14 and the section filled. In this manner as many of the sections 14 may be added as is desired and the lid 17 placed on the top section, with the flanges 18 entering the flanges 12 of the top flue-sections 11.

My annealing-box, as will be readily seen, may be adjusted to accommodate varying amounts of work. The weight of the contents is so distributed that only a small portion of it is supported by any of the work. The bottom of each of the sections is supported at a number of points, which prevents their sagging, and the heat is very uniformly distributed throughout the box.

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

1. An annealing-box having a suitable compartment for the work, and a plurality of independent and separately-removable flues extending between the bottom and top of said compartment and supporting the top at a plurality of points, whereby the space in said compartment may be adapted to the varying size and shape of the work.

2. An annealing-box consisting of a plurality of separable sections resting one upon another, and a plurality of independent re-

movable flues in each of said sections adapted to support the bottom of the section next above, whereby the space may be adapted to the varying size and shape of the work by the removal of a portion of said flues, and whereby the capacity of the box may be adjusted to the amount of the work.

In testimony whereof I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

FERDINAND SCHWEDTMANN. [L. S.]

Witnesses:

J. CLARENCE TAUSSIG,

W. A. ALEXANDER.