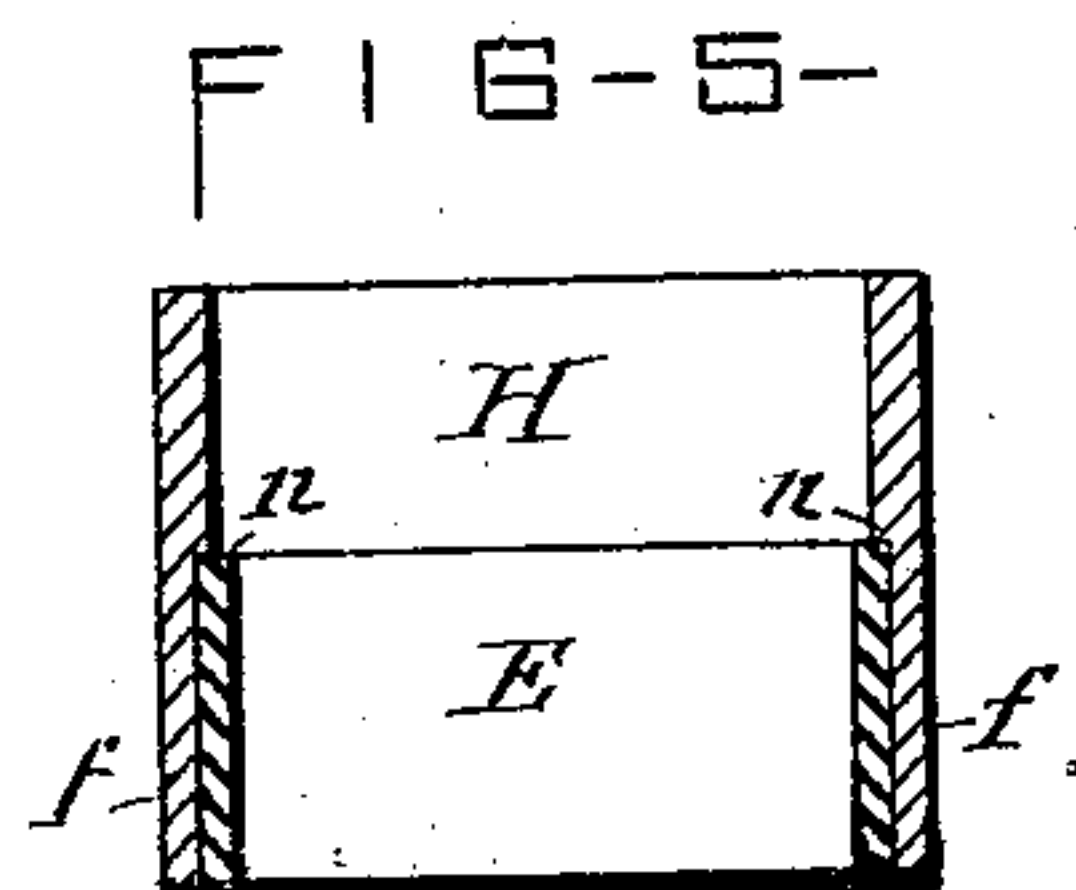
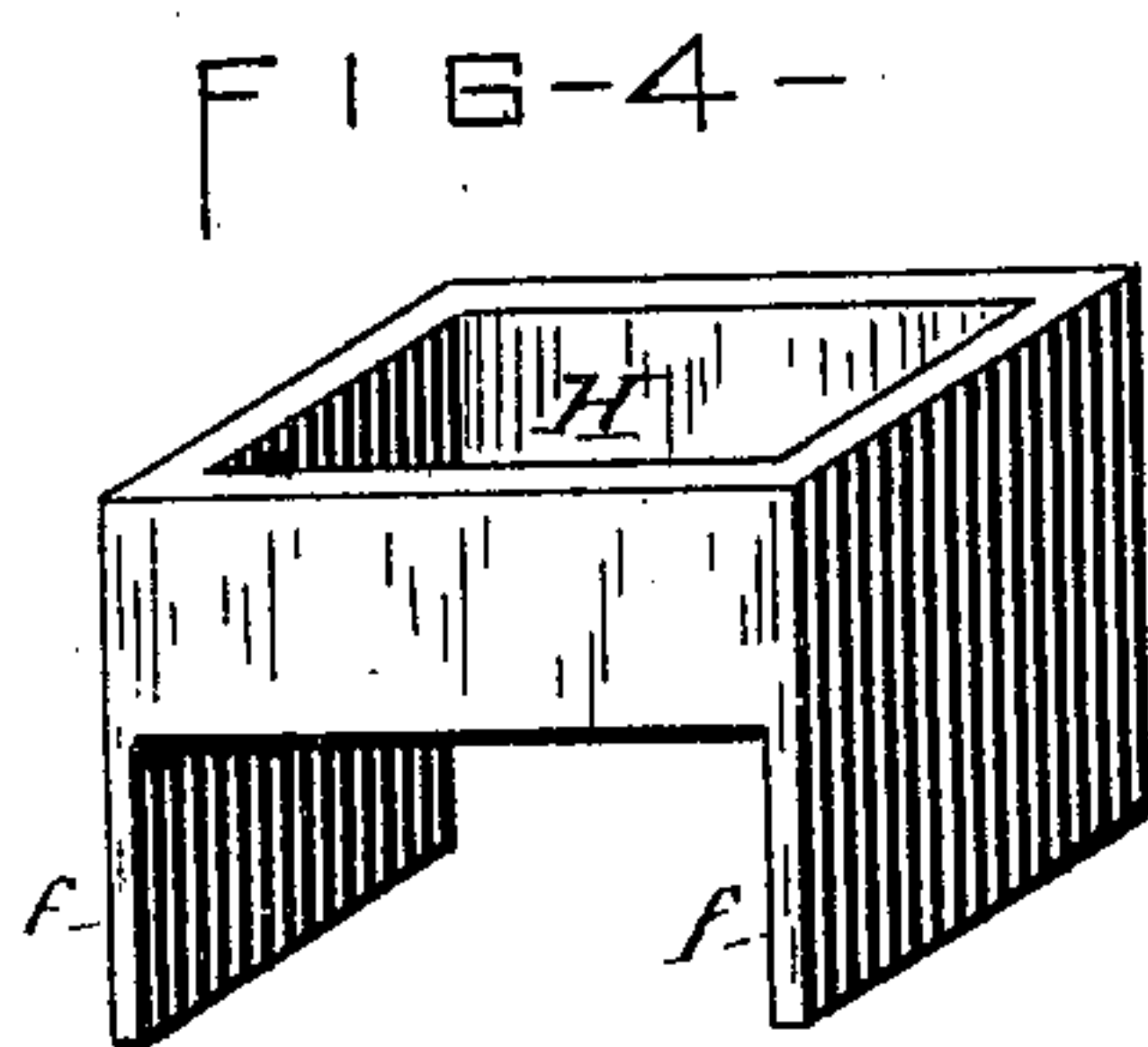
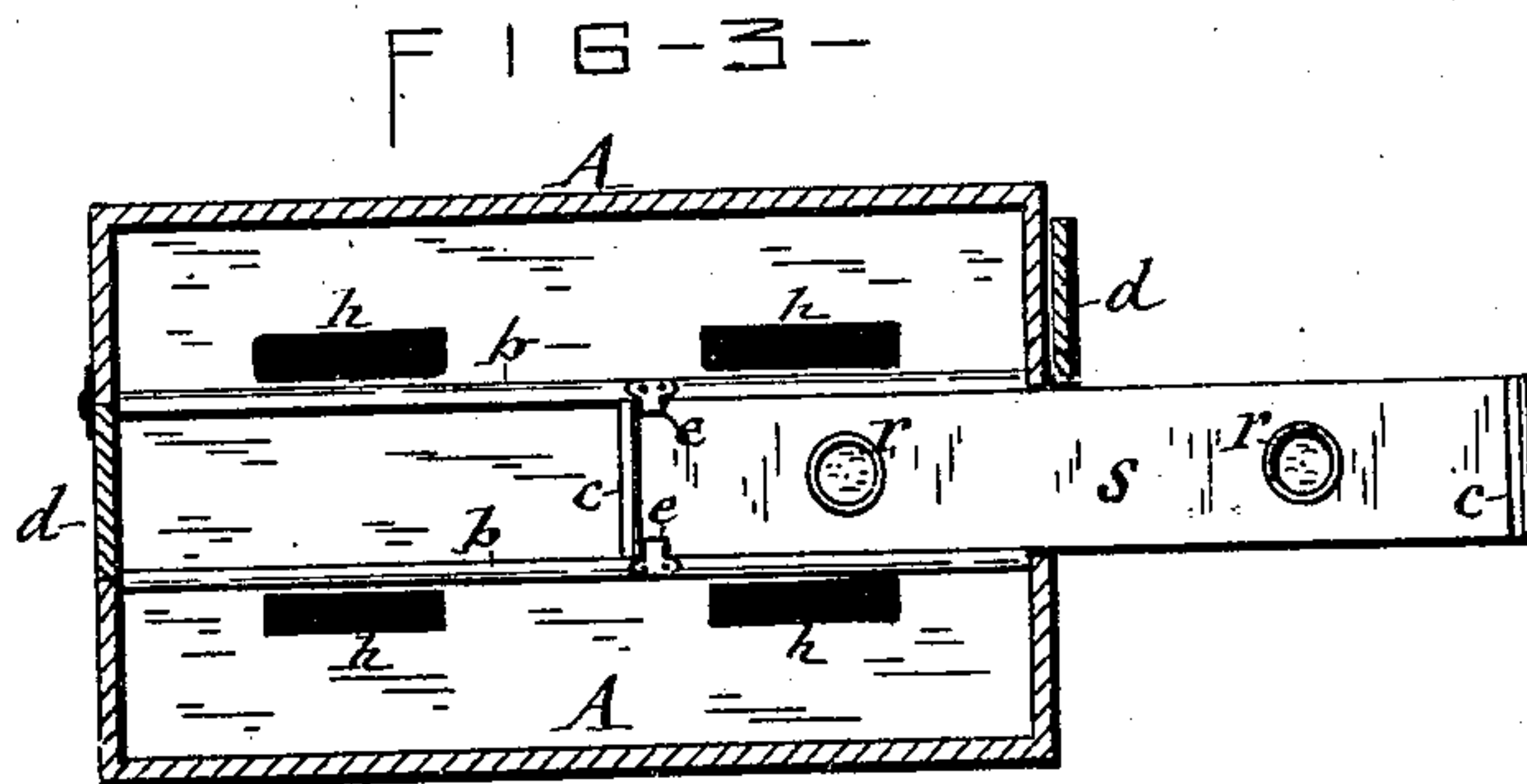
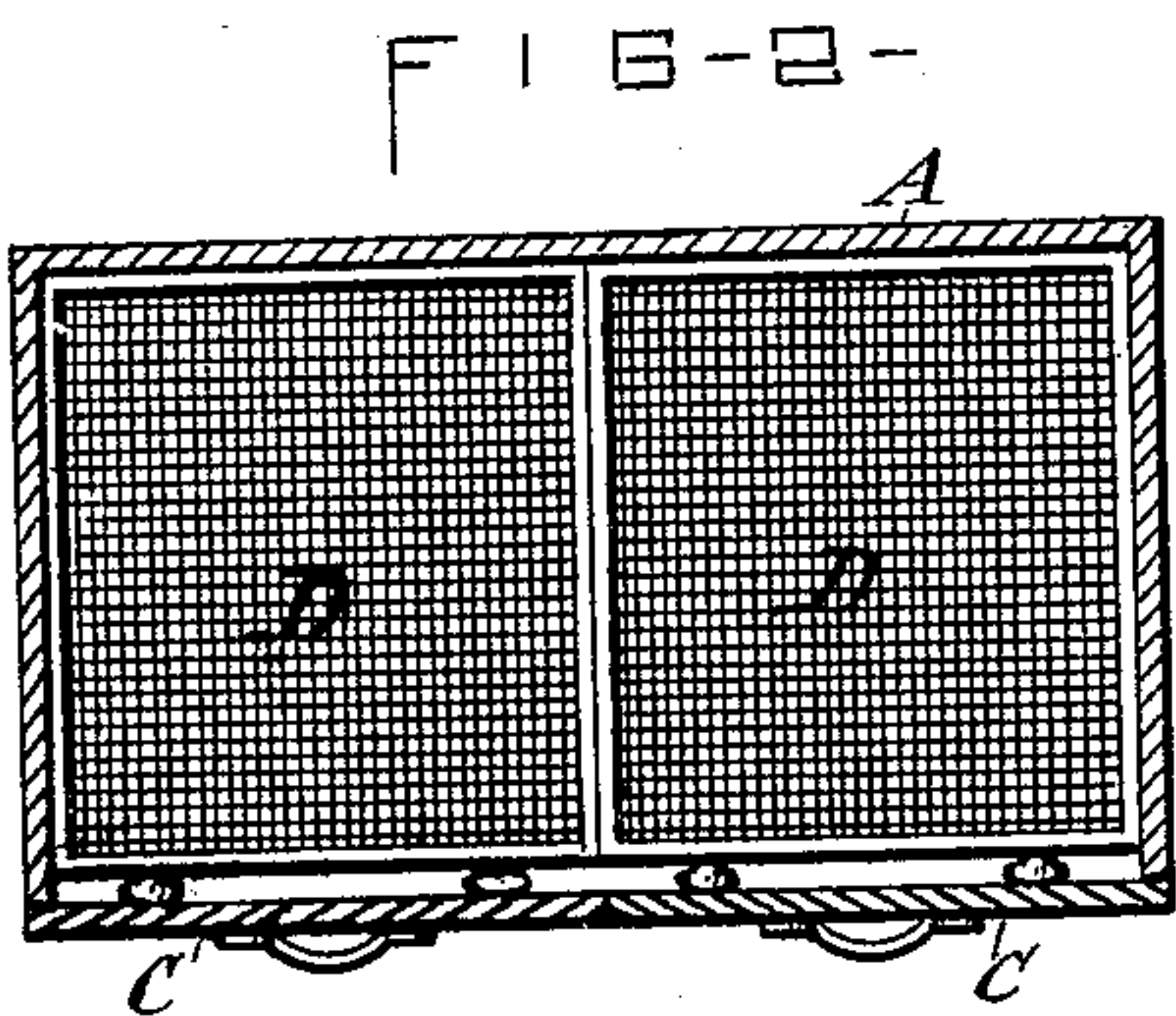
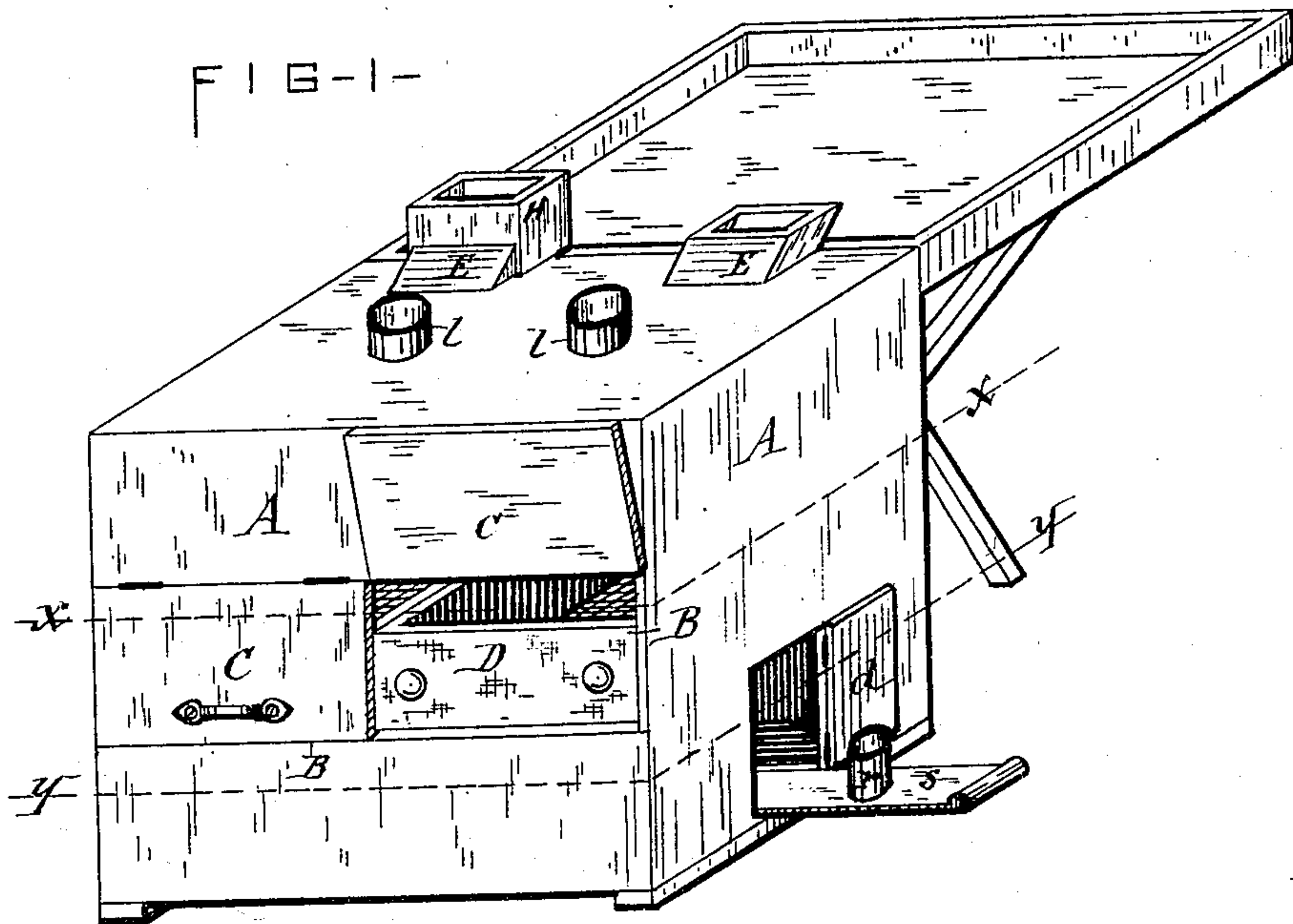


(No Model.)

A. BROCKWAY.  
FRUIT BLEACHER.

No. 287,224.

Patented Oct. 23, 1883.



WITNESSES—  
Wm. B. Raymond.  
J. H. Gibbs

INVENTOR—  
Anna Brockway  
per Hull, Lasso & Hey  
- by Atty -



# UNITED STATES PATENT OFFICE.

ANNA BROCKWAY, OF INGALL'S CROSSING, NEW YORK.

## FRUIT-BLEACHER.

SPECIFICATION forming part of Letters Patent No. 287,224, dated October 23, 1883.

Application filed July 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, ANNA BROCKWAY, of Ingall's Crossing, in the county of Oswego, in the State of New York, have invented new and  
5 useful Improvements in Fruit-Bleachers, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention consists in certain peculiar  
10 features in the construction of the details of the fruit-bleaching apparatus, whereby the operation thereof is rendered more convenient and effective, all as hereinafter more fully explained, and specifically set forth in the claims.

15 In the annexed drawings, Figure 1 is an isometric view of my improved fruit-bleacher. Figs. 2 and 3 are horizontal transverse sections, respectively on line *x x* and *y y*, Fig. 1. Fig. 4 is a detached isometric view of the hopper, 20 and Fig. 5 is a vertical section of the feed-chute and hopper.

Similar letters of reference indicate corresponding parts.

A represents the case of the bleacher, provided on the bottom of its interior with a slide,  
25 *s*, on which are seated two receptacles, *r r*, for the sulphur which in the process of bleaching is burned in said receptacles, to emit the fumes required for bleaching the fruit deposited in  
30 the drawers *D D*, constructed and arranged in the case, as hereinafter described.

Ports *h h* in the bottom of the case admit the requisite air, and exits *l l* are applied to the  
35 top of the case, to allow the fumes to escape after performing their functions on the fruit in the case.

The aforesaid slide *s* is of a length which allows it to be completely inclosed in the case. The two ends of the latter are each provided  
40 with a door, *d*, which allows the slide to be drawn out of the case sufficiently to obtain access to the receptacle *r* on one end of the slide, for replenishing the same when required, thus obviating the necessity of reaching into  
45 the case, and therefore greatly facilitating the operation. Said slide moves between parallel ways *b b*, fixed to the case, and at about midway the length of said ways are two guards,  
*e e*, attached to the case at opposite edges of the slide and projecting over the latter. These

guards serve two functions—viz., to hold down the inner end of the slide when drawn out of the case, and to arrest at the proper time the movement of the slide, which latter is effected by the encounter of the guards with cross-cleats  
55 *c* on the ends of the slide, which cleats also serve to afford a hold on the slide for drawing the same out of the case.

Above the slide *s*, or about midway the height of the case, are two drawers, *D D*, arranged side by side, and supported on horizontal  
60 cleats on the interior of the case in the usual manner, the bottom of the drawers being perforated or reticulated, usually formed of wire-netting, to allow the fumes to readily  
65 ascend through the drawers in which the fruit to be bleached is placed.

Heretofore the front of the drawer protruded through an opening in the case, and formed part of the outer wall of the case when closed;  
70 but this arrangement not only caused more or less leakage of the fumes through the joints around the outer end of the drawer, but also necessitated a partial extraction of the drawer  
75 whenever it was desired to obtain access to the contents of the drawer for leveling the same or other purposes. To obviate these defects and inconveniences, I shorten the drawer  
so as to come completely inside of the case, and the front of the latter I provide with an  
80 opening, *B*, which allows the drawer to be removed when required, and is extended above the top of the drawer sufficiently to afford the necessary access thereto without disturbing  
85 the drawer in its position.

A door, *C*, is fitted closely to the opening *B*, and completely incloses the drawer in the case.

*E E* are two chutes—one over each drawer—to convey thereto the fruit to be bleached, and  
90 *H* is a hopper removably seated on top of the chute, and adapted to be shifted from one to the other, so that when one drawer *D* is filled with fruit the hopper can be removed from the chute over said drawer and applied to the  
95 chute over the other drawer, to convey thereto the fruit, while that in the filled drawer is subjected to the bleaching process. By this arrangement the operator is put on his guard  
100 to introduce the fruit into the proper drawer.



To properly support the hopper on the chute, I provide the ends of the hopper with extensions *f*, which fit closely to the ends of the chute, and are formed with an offset or shoulder, *n*, by which they rest on top of the chute, as illustrated in Fig. 5 of the drawings.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

10 1. In combination with the case A and reticulated drawers D D, arranged side by side, as shown, the doors *d d* in opposite ends of the base of the case, and the slide *s*, on the bottom of the case and in range with the doors *d d*,  
15 and provided with fumigant-receptacles *r r*, substantially as described and shown.

2. In combination with the case A, provided at opposite ends with the doors *d d*, the slide

*s*, provided with cleats *c* and the ways *b*, and guards *e*, secured to the case at opposite edges 20 of the slide, substantially in the manner shown and set forth.

3. In combination with the case A and chutes E E, connected therewith, the hopper H, seated removably on the chute, and provided with 25 the extensions *f* and shoulders *n*, substantially as and for the purpose shown and set forth.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the 30 county of Onondaga, in the State of New York, this 14th day of July, 1883.

ANNA BROCKWAY. [L. S.]

Witnesses:

F. H. GIBBS,

WM. C. RAYMOND.