

(No Model.)

F. C. WILSON & Z. H. BOOLS.

NOZZLE FOR SHIPPING CANS.

No. 257,120.

Patented Apr. 25, 1882.

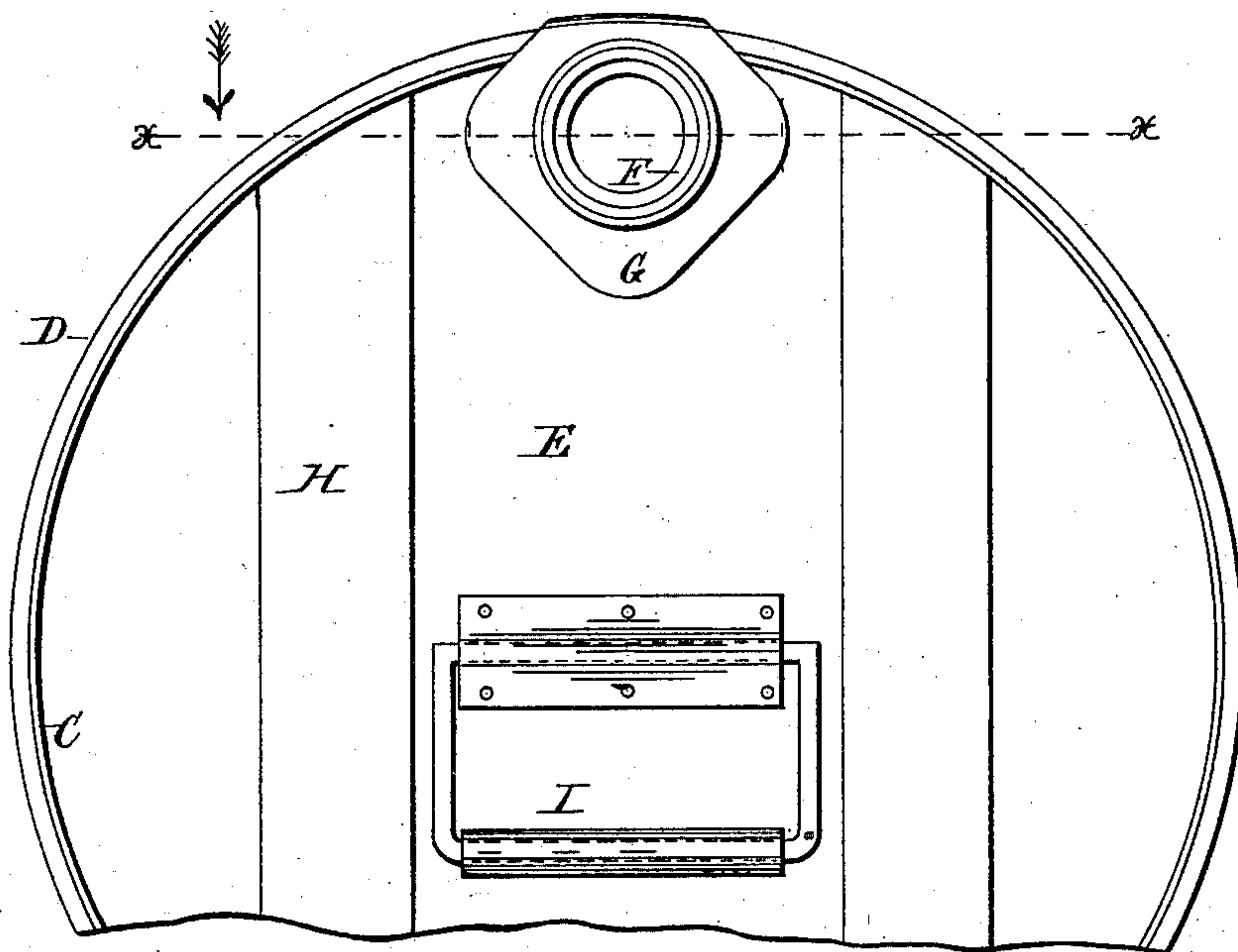


Fig 1

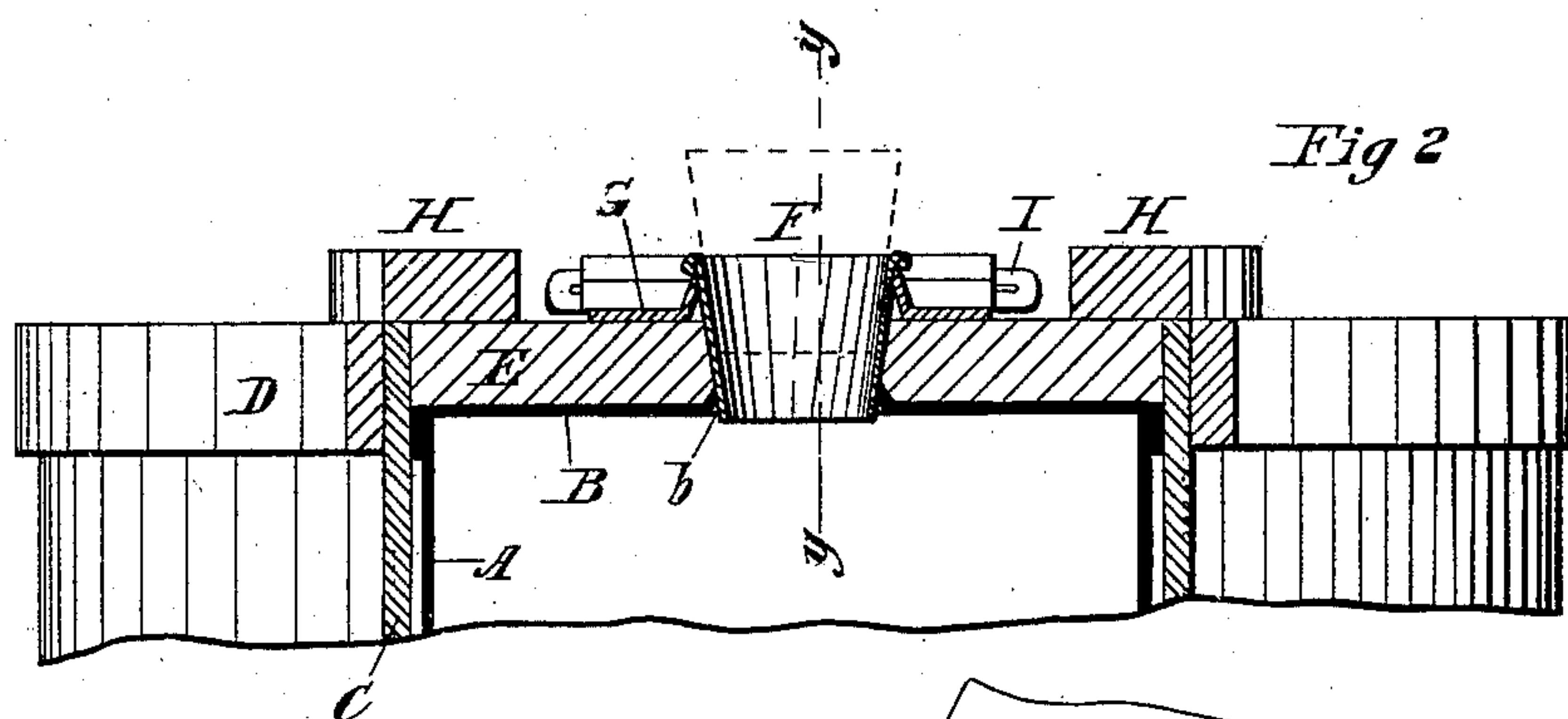


Fig 2

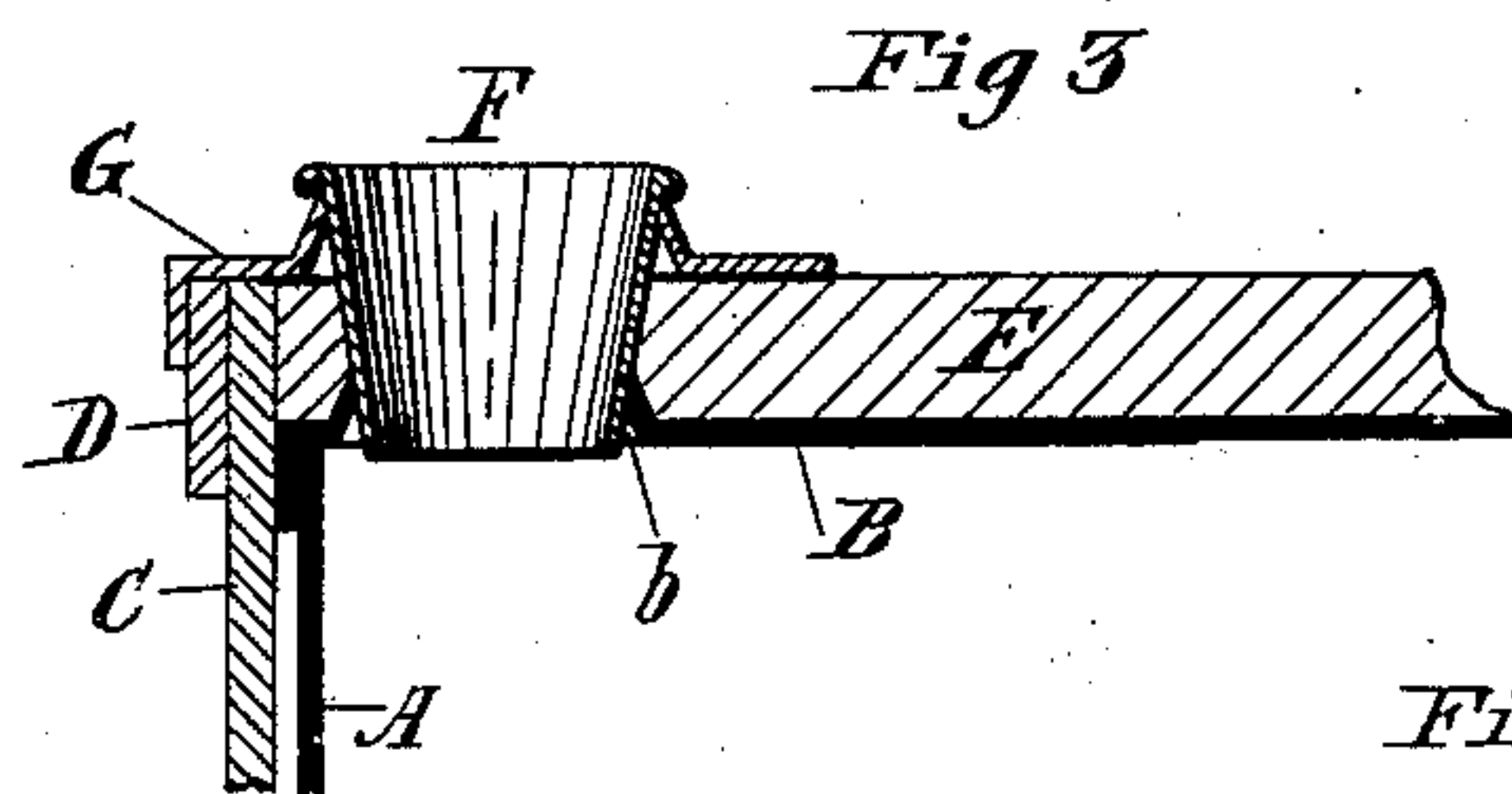
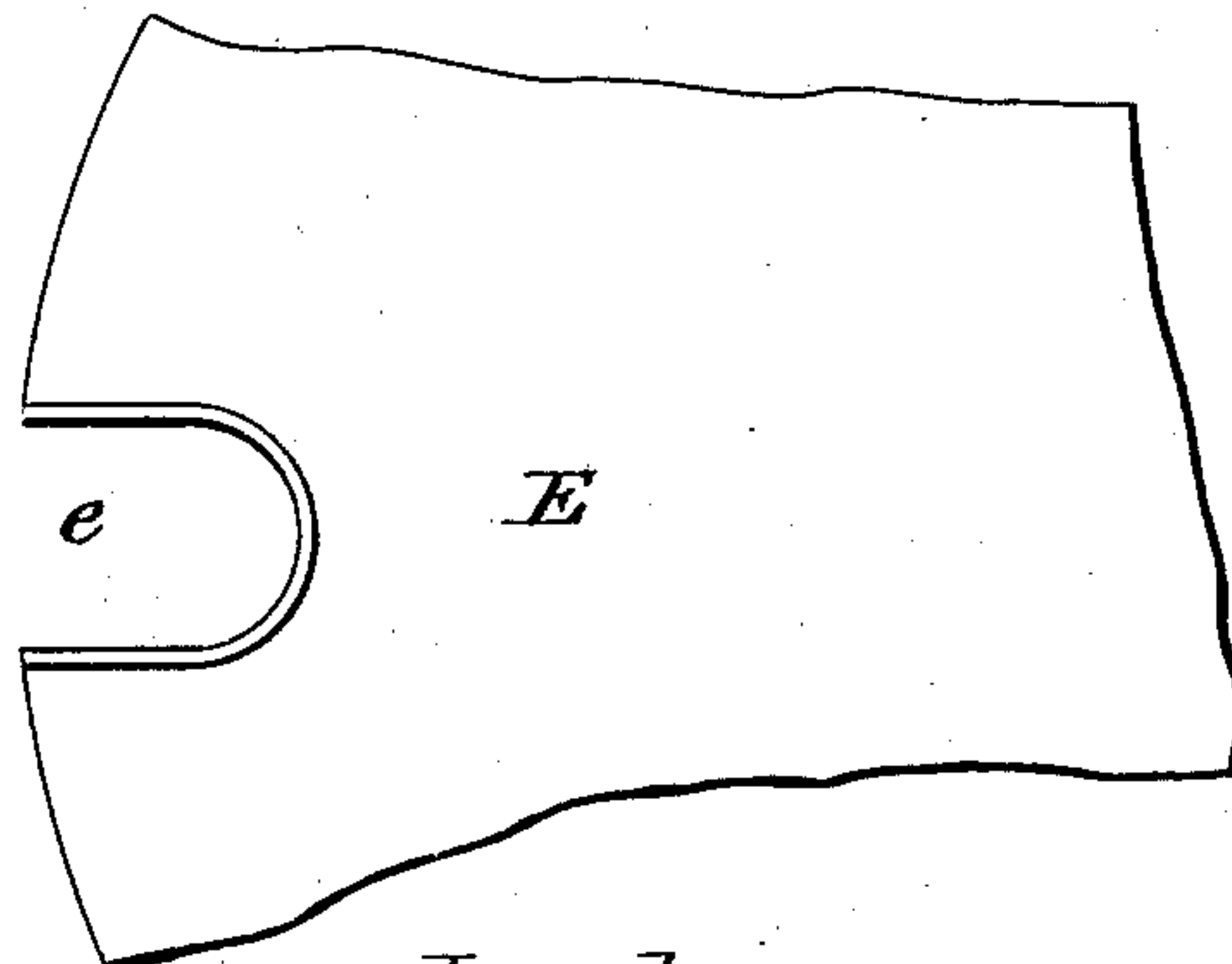


Fig 3

Fig 4



Witnesses

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UNITED STATES PATENT OFFICE.

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NOZZLE FOR SHIPPING-CANS.

SPECIFICATION forming part of Letters Patent No. 257,120, dated April 25, 1882.

Application filed August 25, 1881. (No model.)

To all whom it may concern:

Be it known that we, F. CORTEZ WILSON and ZADOCK H. BOOLS, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Nozzles for Shipping-Cans, which are fully set forth in the following specification, reference being had to the accompanying drawings, in which—
10 Figure 1 represents a plan view of a portion of a can-top with our improvement applied; Fig. 2, a section of the same on the line *x x*, Fig. 1; Fig. 3, a detail section taken on the line *y y*, Fig. 2; and Fig. 4, a detail plan of a section of the can-cover.

Our improvement relates to flat-topped shipping-cans, and is intended to be applied to such cans as are provided with jackets and covers, so as to be incased, the cans being
20 either cylindrical, rectangular, or of any other form in cross section.

It is well known that much difficulty has been experienced heretofore in attaching the nozzles to the tops in such a way as to protect the nozzle, and at the same time protect the can from breaking, the great difficulty being that the nozzle has been supported entirely by the can-top, so that a blow or pressure upon the nozzle will frequently break away
30 the top from the body of the can. It is the object of our improvement to avoid this difficulty; and the invention consists in devices of special construction and arrangement to obviate this difficulty by resisting this thrust
35 on the can-top.

We will proceed to describe one way of carrying out our invention, and will then point out definitely in the claims the special improvements which we believe to be new and
40 desire to secure by Letters Patent.

In the drawings we have only shown the top of the can and a small portion of the body, as the lower portion of the latter has nothing to do with our present invention.

45 In the drawings, A represents the body of the can, which may be cylindrical or of any other form; and B, the top, which is flat, and in this instance fits over the outside of the body, like a cover, and is secured in the ordinary way. The can is provided with an out-

side jacket, C, of wood preferably, and a wooden bottom will be fitted to the lower end of the jacket, as usual. The upper end of the jacket is surrounded by an outside hoop, D, and is extended up above the top of the can
55 sufficiently to receive the cover E, which is fitted within the jacket, and is also of wood. The nozzle F is inserted in an opening, *b*, in the top of the can, near its outer edge, the edge of the metal around the opening being
60 upset, as shown in Fig. 3 of the drawings, and closely fitting the nozzle, which is slightly flaring. A notch, *e*, is cut in the edge of the cover to accommodate the nozzle and to provide for the easy fitting of the cover in place.
65 The nozzle is of course soldered to the can-top, and it projects slightly above the cover. A plate, G, is provided of somewhat larger area than the cross-section of the nozzle, and has a central opening made in it to accommo-
70 date the latter. In the drawings the edge of the plate around the nozzle-opening is shown upset and fitting under the turned-over upper edge of the nozzle, to which it may be soldered, if desired, though this is not necessary, as this
75 plate should make a close fit between the cover and the upper edge of the nozzle. The plate is pressed down smoothly on the cover, if necessary, and if there is any portion which projects beyond the hoop it should be bent
80 down over the latter, as shown in the drawings.

In manufacture the fastening-plate is first slipped on the nozzle over the small end of the latter, and the nozzle is then secured to
85 the can-top. The cover is then slipped into place underneath the fastening-plate and the jacket and hoop put in place and secured in the usual way.

Obviously some changes may be made in the
90 details of construction described above without modifying the essential principle of our improvement. The nozzle may be straight, and the fastening-plate may be attached thereto by some other method than that above de-
95 scribed, provided, always, it is so arranged with reference to the nozzle and cover as to make a resistance-plate to counteract the downward thrust of the nozzle whenever force of any
100 kind is applied. We do not therefore limit

ourselves to the particular details of construction herein shown and described.

Ordinarily the nozzles of such incased cans as we have referred to have been loose in the
5 cover, so that a blow or pressure on the upper end of the nozzle would be transferred at once to the can-top; but in our improvement it will be seen that the plate around the nozzle on the upper side of the cover takes up the force
10 of the blow and transfers it to the cover, thereby effectually preventing any injury to the can by the breaking away of the top. The resistance-plate should of course be of sufficient size to effectually accomplish this purpose.
15 pose.

As a further protection in the shipping of cans, slats H may be fastened across the cover, being substantially flush with the top of the nozzle. A handle or bail, I, is attached to the
20 top of the cover.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The flat can-top B, in combination with the flaring nozzle F, cover E, and plate G, 25 fitted closely around the nozzle above the cover and resting on the latter, substantially as and for the purpose set forth.

2. The flat can-top B, in combination with the flaring nozzle F, having its upper edge 30 turned over, cover E, and plate G, fitted upon the nozzle, and having the edge around the nozzle-opening upset to rest under the turned-over edge of the nozzle, substantially as described.

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