

Pratt & Seimel.

Soldering Mach.

N^o 89,431.

Patented Apr. 27, 1869.

Fig. 1.

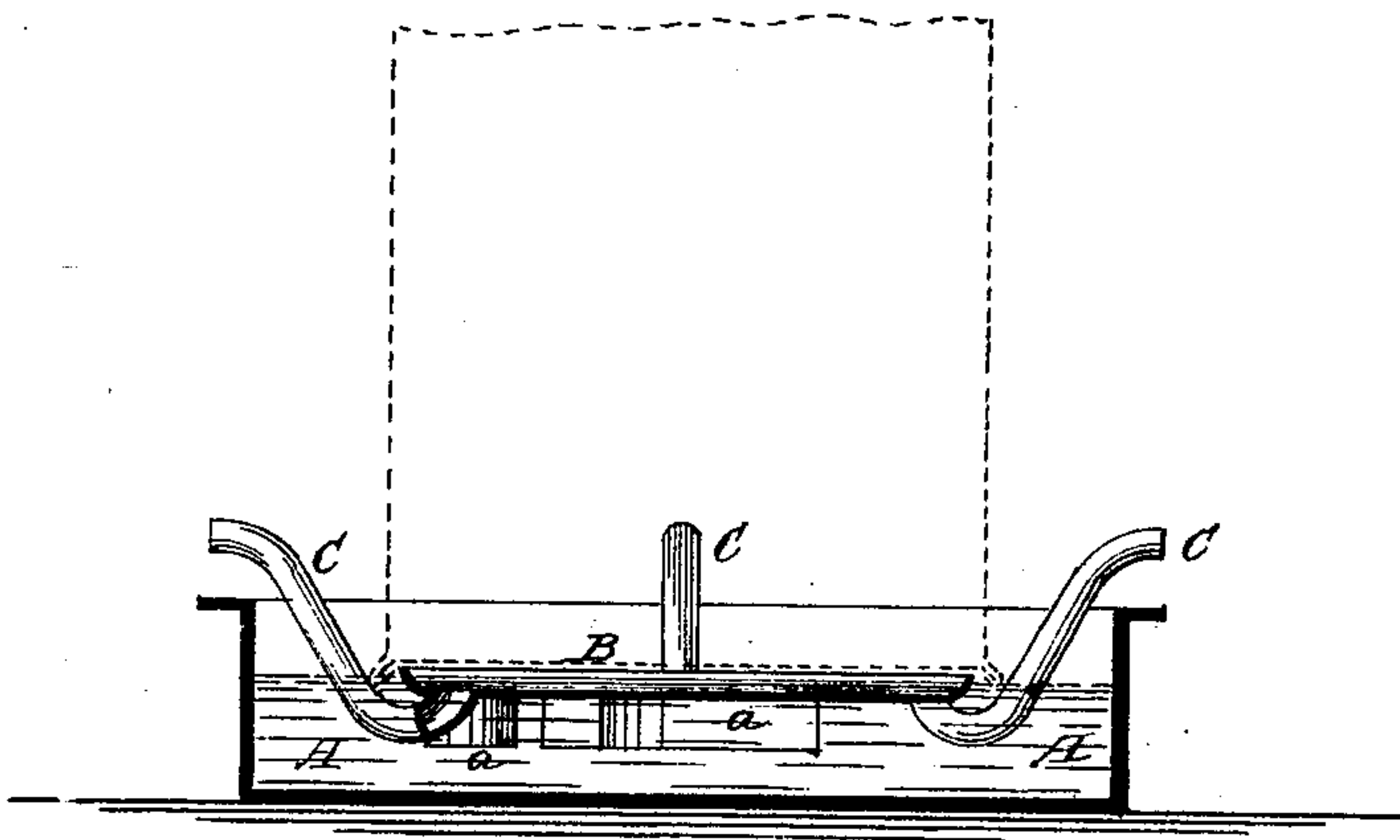
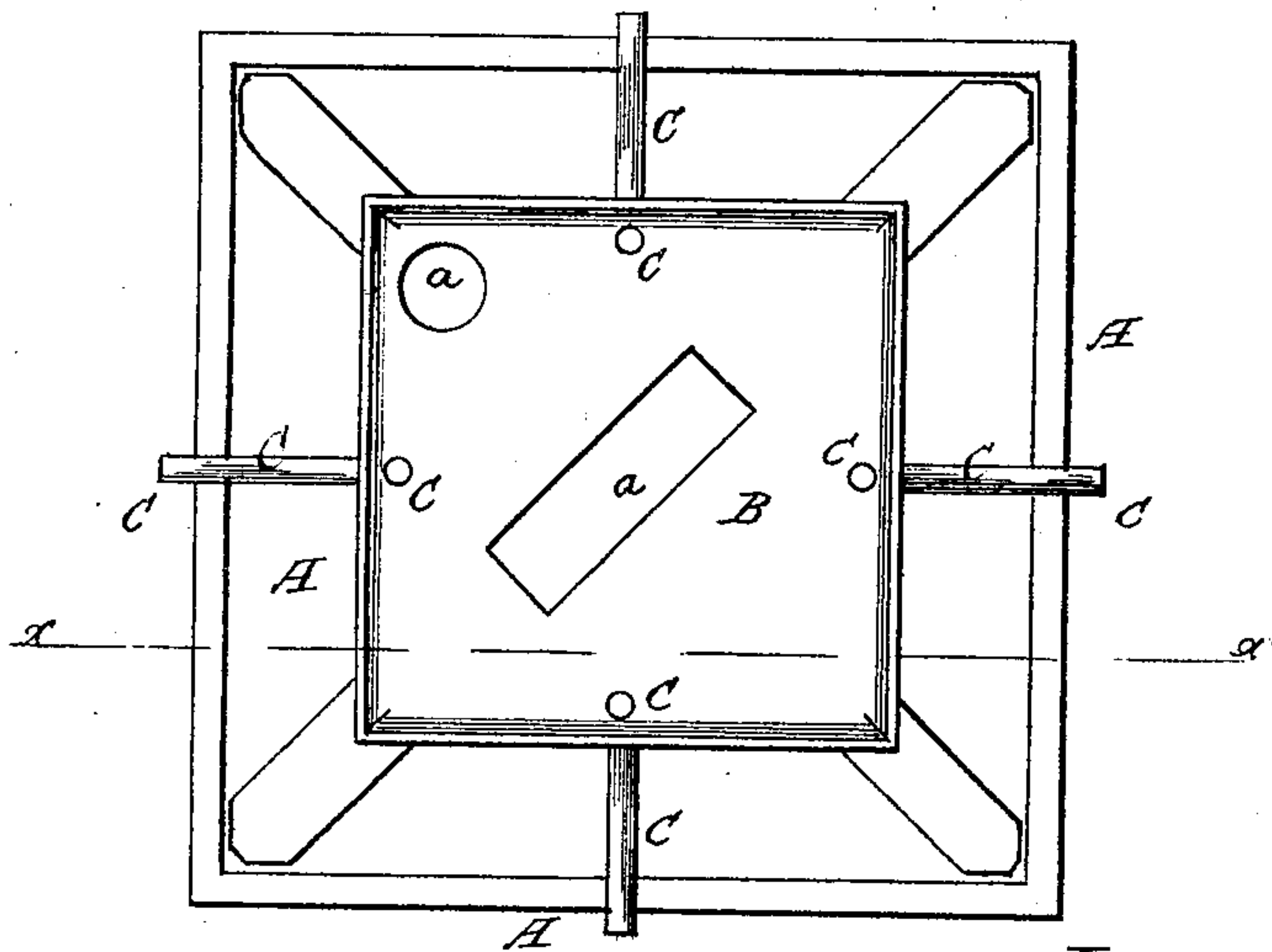


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES PRATT, OF NEW YORK, AND CONRAD SEIMEL, OF GREEN POINT, N. Y.

IMPROVEMENT IN SOLDERING APPARATUS.

Specification forming part of Letters Patent No. **89,431**, dated April 27, 1869.

To all whom it may concern:

Be it known that we, CHARLES PRATT, of New York city, in the county and State of New York, and CONRAD SEIMEL, of Green Point, Kings county, New York, have invented a new and Improved Soldering Apparatus; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a vertical sectional view of our improved soldering apparatus, the plane of section being indicated by the line *xx*, Fig. 2. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new attachment to soldering apparatus of that kind in which the cans to be soldered are supported on a base-plate, shield, or platform, the same being either rigidly secured or adjustable on a frame or floating on the solder.

The object of the invention is to prevent the can from adhering to the said supporting platform or shield, and to facilitate its removal when soldered.

In the present apparatus, air is caught and confined between the lower end of the can and the supporting platform or shield, and as the joint between the latter and the can is, by the liquid solder, generally made air-tight, the removal of the can is made extremely difficult, and connected with much loss of time. With a view of overcoming this difficulty, we have provided air-pipes, which are open at both ends, and attached to the under side of the supporting platform or shield, so as to keep the space between the platform or shield and the can in constant connection with the outer atmosphere, the outer ends of the pipes being elevated above the solder, as hereinafter more fully described.

The invention consists, also, in forming depressions in the supporting shield or platform, to receive handles, nozzles, or other devices projecting from the ends of cans.

A in the drawing represents a soldering-pan of suitable construction. B is the shield or platform for supporting the can to be soldered. It is either arranged to float on the solder in the pan, as shown, or may be rigidly attached to a fixed frame, or made up-and-down adjustable on any suitable frame, as may be desired.

The present invention does not relate or confine itself to any particular form or kind of supporting platform or shield, nor to any particular kind, form, or construction of soldering-pan.

C C are pipes or tubes projecting from the under side of the platform or shield B to the outside, so that their outer ends will always be kept above the surface of the solder. They are thereby enabled to keep the space between the can to be soldered and its support B in constant communication with the outer atmosphere, to prevent the adhesion of the can to the support.

a a are depressions or indentations formed in the surface of the platform or shield B, to admit and receive handles, nozzles, or other devices projecting from the can, so that the main end of the can will fit well upon the support B.

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

1. The air-tubes C C, arranged on the supporting platform or shield B of a soldering apparatus, substantially as and for the purpose herein shown and described.

2. The supporting platform or shield B of a soldering apparatus, when provided with one or more depressions or indentations, *a a*, substantially as and for the purpose herein shown and described.

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