(No Model.)

L. F. ADT.

PHOTOGRAPHIC TRAY HOLDER.

No. 375,912. Patented Jan. 3, 1888.

Fig. 1

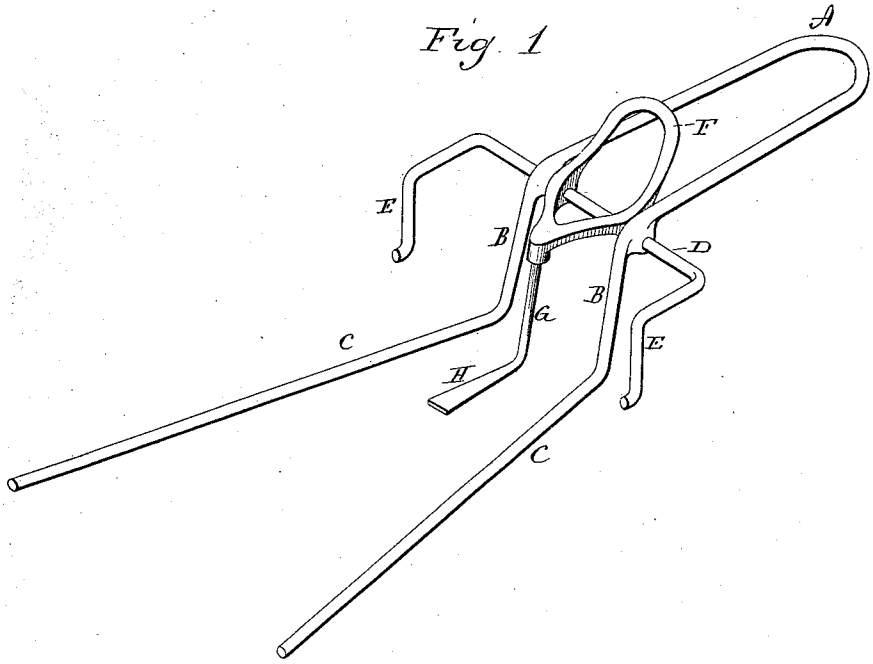


Fig. 2

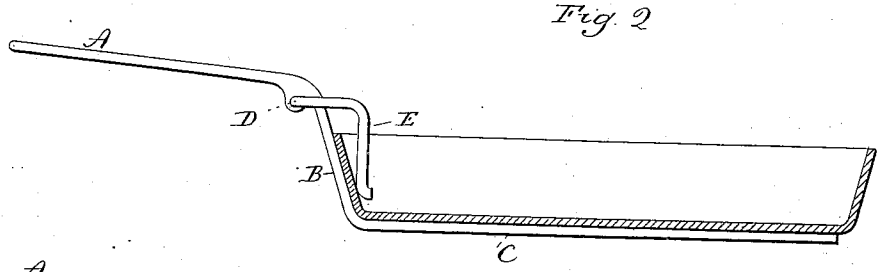


Fig. 3

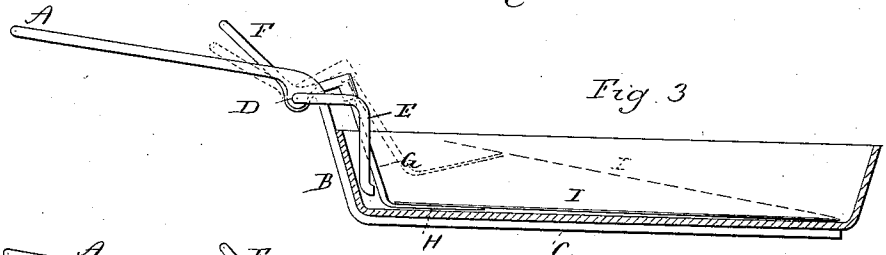
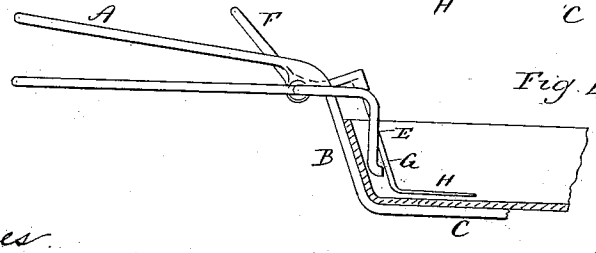


Fig. 4



Witnesses.
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UNITED STATES PATENT OFFICE.

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PHOTOGRAPHIC-TRAY HOLDER.

SPECIFICATION forming part of Letters Patent No. 375,912, dated January 3, 1888.

Application filed September 5, 1887. Serial No. 248,786. (No model.)

To all whom it may concern:

Be it known that I, LEO F. ADT, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Photographic-Tray Holders; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view of the holder and lifter complete; Fig. 2, a longitudinal section through the tray, showing the holder applied; Fig. 3, a longitudinal section through the tray, showing the holder and lifter as applied; Fig. 4, a modification.

This invention relates to a device adapted to be applied to a tray such as used in the treatment of photographic plates, the object being to provide the tray with a handle easily removable, but which will hold the tray firmly in its grasp, and also to combine with such a handle a lifter, by which the plate may be raised from the solution in the tray; and it consists in the construction, as hereinafter described, and more particularly recited in the claims.

The holder is made from wire of suitable size, according to the size of the tray. A single piece of wire of the required length is first bent into U shape, the two legs extending from the bend A (see Fig. 1) in substantially the same plane and so as to form a handle. The legs at suitable distance from the bend A are both alike bent downward to form uprights B B. Thence the two legs are turned horizontally to form the supports C C, adapted to extend beneath the tray, as seen in Figs. 1 and 2, the spread of the two legs being sufficient to support the tray. Transversely across the handle is a rod, D, in length less than the width of the tray. The two ends of this rod are turned downward to form fingers E E, adapted to set over the edge of the tray upon its inside, while the portions B B bear upon the outside of the tray. This bar and fingers E E are made a rigid and inseparable part of the holder.

The holder is applied to the tray by passing the edge of the tray between the lower ends of the fingers E and the supports C C, and so that the side or end of the tray, as the case may be, will pass up between the uprights B B and the fingers E E, as seen in Fig. 2. The side of the tray rests against the uprights B B, and the fingers should bear upon the inner side, so as to grasp the tray between the uprights and the fingers, while the tray itself rests on the supports C, as indicated in Fig. 2. By this device the holder is adapted to be applied to any of the common constructions of trays, and with it the operator may readily handle the tray without actually placing his hands upon the edge, and thereby avoid contact with the solution.

To combine with the holder a plate-lifter, a lever is hinged upon the bar D, preferably between the two sides of the handle, as seen in Fig. 1, one arm, F, extending upward to form a thumb-piece, as seen in Fig. 3, the other arm, G, turned downward and bent at its end, so as to form a finger, H, which will lie upon the bottom of the pan, as seen in Fig. 3. This finger H should be flat and thin, so as to occupy but little space. The plate I is placed in the tray so that one end rests upon the finger H. At any time when it is desired to raise the plate the thumb of the hand which grasps the handle of the tray-holder is placed upon the arm F of the lifter-lever, and that arm pressed downward, as indicated in broken lines, Fig. 3, raises the finger H, and with it the plate, as also indicated in broken lines in Fig. 3, and into such a position that the solution may readily drip therefrom, so that the operator may take the plate without bringing his fingers into actual contact with the solution.

The lifter may be omitted from the holder in cases where the lifter is not desirable, yet the presence of the lifter in no way interferes with the device as a tray-holder; or the lifter may be applied to tray-holders of other constructions—such, for illustration, as shown in Fig. 4, in which the holder is in the form of a pair of handles and clamp adapted to engage and support the tray, the lifter being hung therein in substantially the same manner as in my improved holder. I therefore do not wish to be understood as limiting the hinged lifter to any particular holder.

The fingers E may be somewhat elastic, and so as to make the grasp between the uprights

and the finger close and strong; but the elasticity is not necessary as a practical holder.

I claim—

1. The herein-described photographic-tray holder, made from wire bent into U shape, the two legs in the same plane, and the two legs bent downward to form uprights B B, and thence turned horizontally to form the supports C C, combined with a transverse bar, D, terminating in downwardly-projecting fingers E, substantially as described.

2. The herein-described photographic-tray holder, made from wire bent into U shape, the two legs in the same plane, and the two legs bent downward to form uprights B B, and thence turned horizontally to form supports C C, with a transverse bar, D, terminating in downwardly-projecting fingers E E, combined with a lifter hinged in the handle portion of the tray-holder, one arm extending from said bar to form a thumb-piece, the other extending downward and terminating in a finger adapted to rest upon the bottom of the tray, substantially as described.

3. A holder having a handle and adapted to support a photographic tray, combined with a lever hinged in said holder, one arm extending upward to form a thumb-piece and the other arm extending downward and adapted to lie upon the bottom of the tray, substantially as described.

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Witnesses:
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