

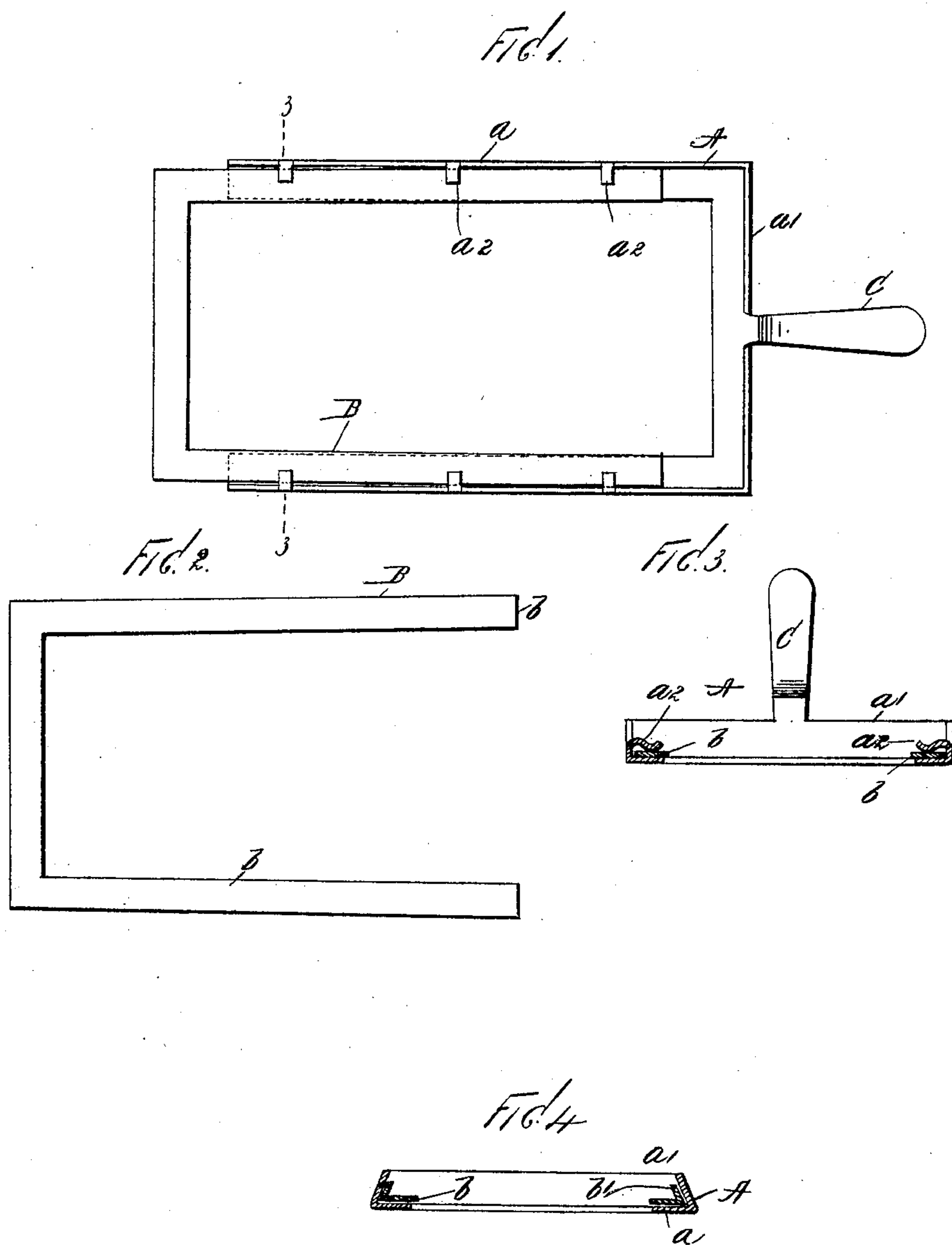
No. 606,727.

Patented July 5, 1898.

C. M. MALI.
PHOTOGRAPHIC FILM HOLDER.

(Application filed Feb. 16, 1898.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

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PHOTOGRAPHIC-FILM HOLDER.

SPECIFICATION forming part of Letters Patent No. 606,727, dated July 5, 1898.

Application filed February 16, 1898. Serial No. 670,505. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. MALI, a subject of the King of Belgium, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Film-Holders, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to the art of photography, and has for its object to provide a holder which shall be simple and economical in construction and which is adapted to receive and retain the negative film and prevent the warping or mutilation of said film while being subjected to the acid-bath.

The invention consists of a film-holder constructed substantially as hereinafter described, and defined in the claims.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 represents a plan view of the improved film-holder. Fig. 2 is a similar view of a detail. Fig. 3 is a cross-section on the line 3 3 of Fig. 1, and Fig. 4 is a cross-section of a modification.

Referring to the drawings, A represents the tray or body portion of the improved film-holder and is constructed of any suitable material which is substantially acid-proof, such as hard rubber, zylonite, aluminium, &c.

The tray A is preferably rectangular in form and is provided with longitudinally-extending arms *a*. A suitable handle C is provided at a suitable point. An upwardly-extending flange *a'* is arranged about the periphery of the body portion of the tray, and at suitable points along the arms *a* are arranged horizontally-extending lugs *a*², which are downwardly inclined at the outer ends toward the bottom of said tray, thus forming guides or ways for the arms of the sliding clamp B. The sliding clamp B is constructed, preferably, of the same material as the tray A and is provided with longitudinal arms *b*, which are adapted to slide beneath the lugs

*a*² and be held closely and firmly upon the arms *a* of the tray A, as shown in Fig. 1.

In the form shown in Fig. 4 the tray A is provided with a surrounding flange or rim *a'*, which is inclined inwardly, forming an acute angle with the base of the arms *a*. The arms *b* of the sliding clamp B are provided with a similarly-arranged flange *b'*, arranged upon the outer edges of said arms, and is adapted to lie snugly within the guideway formed by the inclined flange *a'* of the tray A.

In operating the above-described device the negative film is arranged upon the bottom of the tray A and is supported by the arms *a*. The sliding clamp is then guided beneath the lugs *a*², thus overlapping the edges of said film and clamping the same firmly and smoothly in the tray. The operator is then enabled to subject the film to a chemical bath and to otherwise manipulate the same without danger of mutilating or distorting the same and also by reason of the handle is enabled to perform the various operations without the annoyance of coming in contact with the chemicals employed.

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

1. In a film-holder, the combination with a body portion, provided with longitudinal arms, and a guideway formed in said arms, of a sliding clamp provided with longitudinal arms and adapted to slide in said guideway, substantially as described.

2. In a film-holder, the combination, with a body portion having two parallel arms, each of which is provided with a guide or way, of a sliding clamp provided with two parallel arms adapted to slide in said guides or ways.

3. In a film-holder, the combination with a suitable body portion provided with longitudinally-extending arms, an inwardly-inclined rim or flange arranged upon the outer edge of said body portion and arms, of a sliding clamp adapted to be engaged by said inclined rim, substantially as described.

4. In a film-holder, the combination with a body portion having longitudinally-extending arms, an inwardly-inclined rim or flange extending around the edges of said body portion and arms, of a sliding clamp having

longitudinally-extending arms, an inclined flange or rim arranged upon the outer edge of said arms, and adapted to be retained in place by the inclined flange of the body portion,
5 substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in pres-

ence of the subscribing witnesses, this 14th day of February, 1898.

CHARLES M. MALL.

Witnesses:

L. M. MULLER,

A. C. McLOUGHLIN.