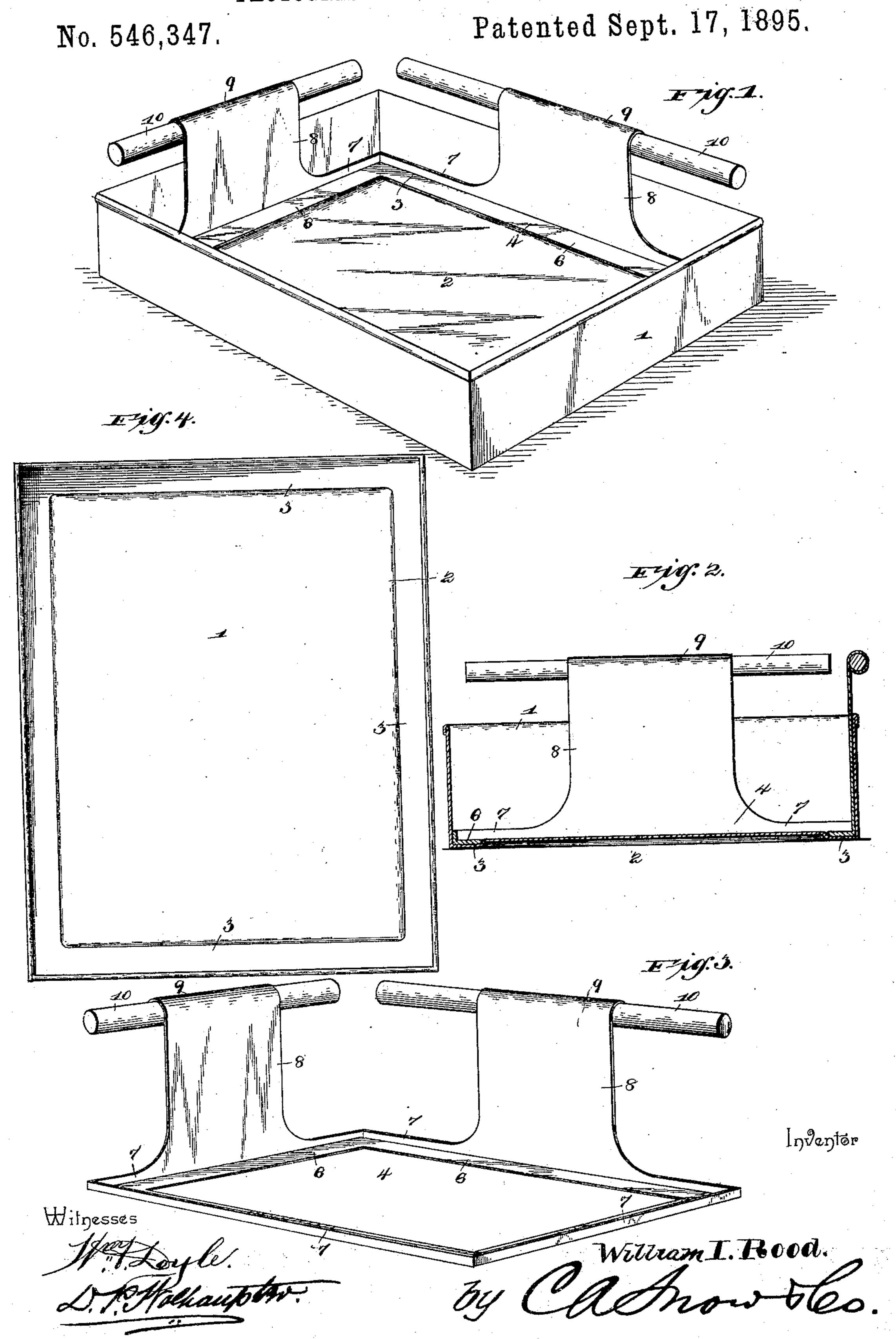
W. I. ROOD.

PHOTOGRAPHIC DEVELOPING TRAY.



United States Patent Office.

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PHOTOGRAPHIC DEVELOPING-TRAY,

SPECIFICATION forming part of Letters Patent No. 546,347, dated September 17, 1895.

Application filed December 29, 1894. Serial No. 533,340. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM I. ROOD, a citizen of the United States, residing at Spencer, in the county of Clay and State of Iowa, 5 have invented a new and useful Photographic / Developing-Tray, of which the following is a specification.

This invention relates to photographic developing-trays for developing photographic no negatives; and it has for its object to provide a new and useful tray of this character providing simple and efficient means whereby the exposed plate or film can be positively and uniformly developed without handling

15 with the fingers.

To this end the main and primary object of the present invention is to provide a new and useful construction of developing-tray, in connection with a holder or lifter for the 20 plate or film, that will obviate the necessity of placing the fingers in the developing chemical or the handling of the plate or film during the operation of developing, thereby absolutely insuring the plate or film against be-25 ing scratched or otherwise injured.

With these and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and 30 arrangement of parts hereinafter more fully

described, illustrated, and claimed.

In the drawings, Figure 1 is a perspective of a photographic developing-tray constructed in accordance with this invention. Fig. 2 is a 35 transverse sectional view. Fig. 3 is a detail in perspective of the holder-frame for the plate or film. Fig. 4 is a plan view of the pan or dish.

Referring to the accompanying drawings, 1 40 designates a rectangular pan or dish that is made of any suitable material capable of withstanding the action of the chemicals used in photographic developing, and said pan or dish may be made in any desired size, accord-45 ing to the size of plates or films designed to be developed therein. In the present invention the bottom 2 of the pan or dish 1 is provided at the inner sides and ends of the pan or dish with a continuous rectangular 50 countersink or recess 3, that extends parallel with the sides and ends of the pan or dish and is sunk or depressed below the plane of the I

main portion of the bottom 2. The said continuous rectangular countersink or recess 3 is designed to receive therein the sides and ends 55 of the rectangular skeleton holder-frame 4.

The rectangular skeleton holder-frame 4 essentially consists of the connected side and end plates 6 and is preferably stamped out of a single blank of metal. By reason of the 60 skeleton construction of the holder-frame 4 the sides and ends of said frame surround an open space of a size agreeing with the main bottom 2, encircled by the countersink or recess 3, and the said opening or opening-space 65 of the rectangular holder-frame enables the operator to examine the plate or film by transmitted light during the process of developing, as will be readily understood by those skilled in the art.

The rectangular skeleton holder-frame 4 is provided at its outer edge with a continuous upturned retaining-flange 7, that serves to firmly retain the plate or film within the holder-frame while being lifted in or out of 75 the pan or dish, and said frame 4 is further provided at one side and at one end with a right-angularly and upwardly disposed arm extension 8, provided at its upper end above the top of the pan or dish with a circular 80 bead 9, that forms a socket to receive a handle 10, and by reason of the location of a handle at one side and one end of the plate-holder frame and the right angular disposition of the handles it will be obvious that the said 85 holder-frame can be easily lifted in and out of the pan or dish and can be conveniently manipulated by the operator for examining the plate or film by transmitted light, as is usual in the process of development.

In using the developing-tray the exposed plate or film is placed within the holder-frame 4, which is then lowered into the pan or dish 1, and when the holder-frame with the plate or film therein is placed in the pan or dish 95 the side and end plates comprising the holderframe will register in the continuous rectangular countersink or recess 3, and will therefore lie flush with the main portion of the bottom of the pan or dish, so that no more roc solution or chemical is required in developing the plate or film, by reason of the use of the holder-frame, than would be required if such

holder-frame were not employed.

The many advantages of the herein described developing-tray will readily suggest themselves to those skilled in the art, and it will be understood that changes in the form, 5 proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what 10 is claimed, and desired to be secured by Let-

ters Patent, is—

1. In a photographic developing apparatus, the combination of a pan or dish, the bottom of which is provided at the inner sides and 15 ends with a continuous rectangular countersink or recess, and a holder frame adapted to removably fit within the pan or dish and having its sides and ends registering in said countersink or recess, substantially as set 20 forth.

2. In a photographic developing apparatus, the combination of a pan or dish, the bottom of which is provided at the inner sides and ends with a continuous countersink or re-

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cess, and a flanged rectangular holder frame 25 provided at one side and at one end with a handle and adapted to have the side and the end portions thereof register in the countersink or recess of the pan or dish, substantially as set forth.

3. A plate or film holder for photographic developing purposes, the same consisting of a rectangular skeleton frame provided at its outer edge with a continuous upturned retaining flange, and at one side and one end 35 with integral upwardly disposed arm extensions terminating at their upper ends in circular beads forming sockets, and right angularly disposed handles fitted in the sockets formed at the upper ends of said arm exten- 40 sions, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in

the presence of two witnesses.

WILLIAM I. ROOD.

Witnesses:

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W. P. BOWMAN, A. L. TUTTLE.