J. TUREK.

PHOTOGRAPHIC, DEVELOPING, AND PRINTING BOX.

APPLICATION FILED FEB. 16, 1916.

**1,198,290.**

Patented Sept. 12, 1916.

2 SHEETS—SHEET 1.

Fig. 1.

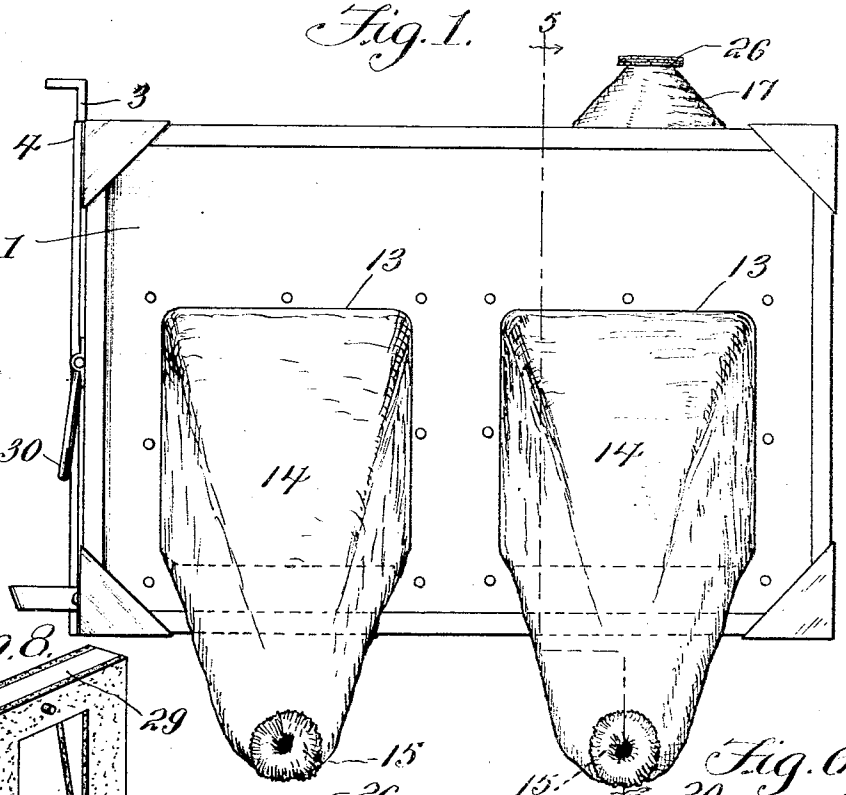



Fig. 8.

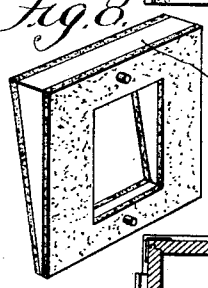



Fig. 6.

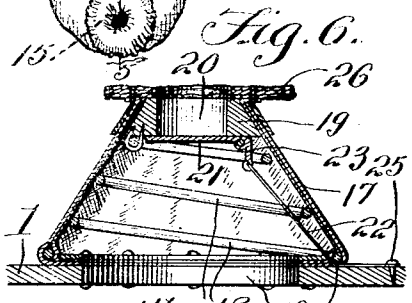
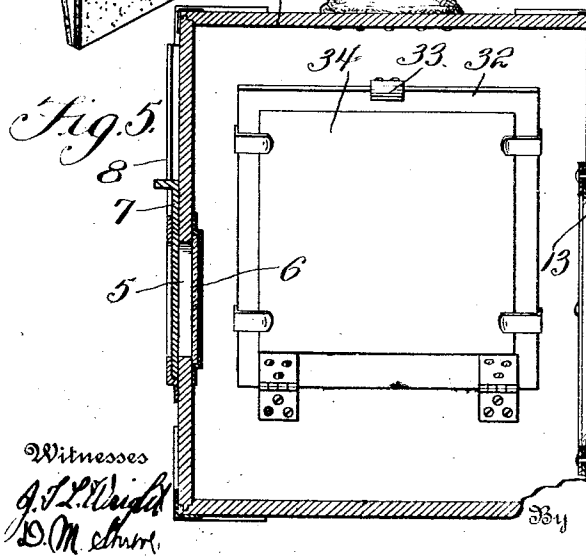



Fig. 5.




Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

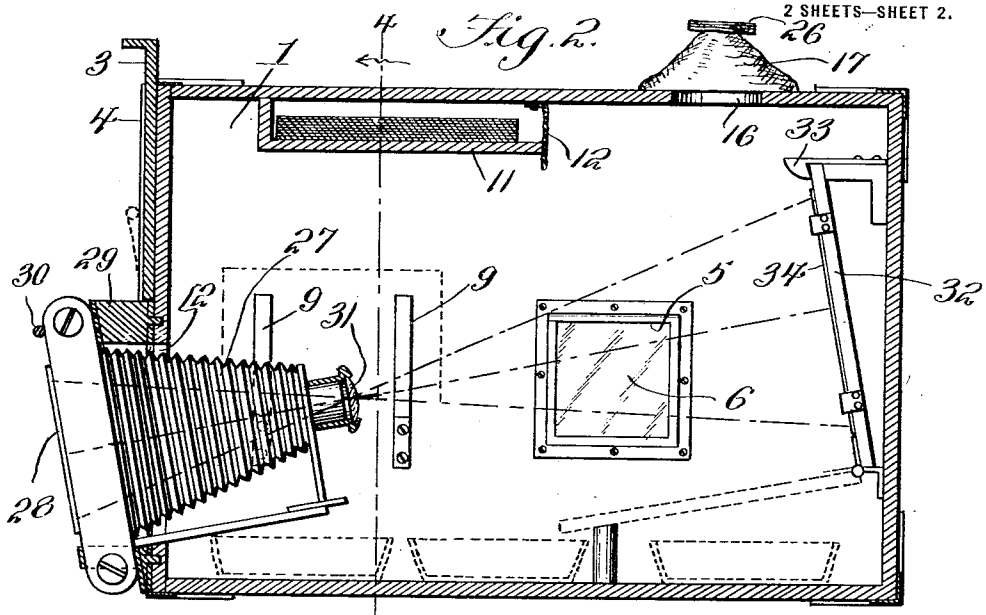



Fig. 3.

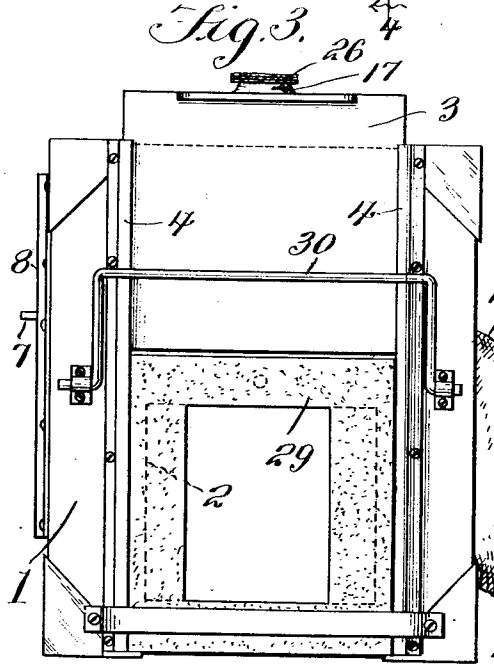



Fig. 4.

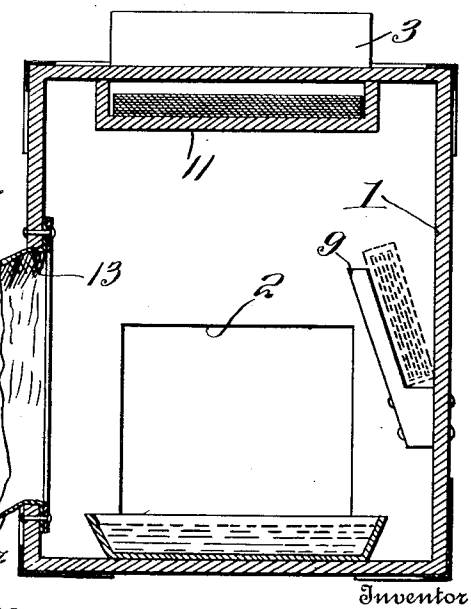
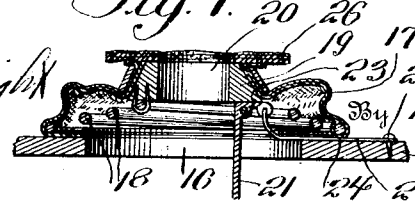



Fig. 7.




Witnesses

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# UNITED STATES PATENT OFFICE.

JOSEPH TUREK, OF NOKOMIS, ILLINOIS.

## PHOTOGRAPHIC, DEVELOPING, AND PRINTING BOX.

1,198,290. Specification of Letters Patent. Patented Sept. 12, 1916.

Application filed February 16, 1916. Serial No. 78,691.

*To all whom it may concern:*

Be it known that I, JOSEPH TUREK, a citizen of the United States, residing at Nokomis, in the county of Montgomery and State of Illinois, have invented new and useful Improvements in Photographic, Developing, and Printing Boxes, of which the following is a specification.

This invention relates to boxes adapted to be used for photographing, developing, enlarging and printing and it consists in the novel features hereinafter described and claimed.

One of the objects of the invention is to provide in conjunction with a box of the character stated means adapted to be used by pressure from the head of the operator for opening the peep hole of the box in order that the interior thereof may be viewed during the process of printing or developing. This means includes primarily a spring supported hood which is located over the peep hole and which carries a padded block having an opening adapted to register with the hole in the box. A shutter normally closes the hole through the block but when the block is moved toward the peep hole in the box the said shutter opens by gravity thus permitting the interior of the box to be viewed. The said hood and its connected parts are adapted to be used upon the box in the event that it is intended to use the box for developing or printing, however, the interior arrangement of the box is varied according to the use to which the box is to be put.

The advantages gained by using the device are that photographs may be printed and developed in the light and in the open without the necessity of an operator performing the said operation in a dark room which is now generally used for these purposes.

Another object of the invention is to provide means whereby the operator may stand at the exterior of the box and insert his arms and hands in the same without permitting light to pass through the openings through which he inserts his arms and hands into the box.

In the accompanying drawings:—Figure 1 is a side view of the box which may be used for developing. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is an end view of the same. Fig. 4 is a transverse sectional view of the same cut on the line 4—4 of Fig. 2. Fig. 5 is a similar view cut on the line 5—5 of Fig. 1. Fig. 6 is a detailed sectional view of the hood showing the same extended. Fig. 7 is a similar view of the hood showing the same collapsed. Fig. 8 is a perspective view of a block which may be used in conjunction with the box.

As shown in Fig. 1 of the drawings, the device includes a rectangular box 1 which may be made of wood, paper or other suitable material. The said box 1 is provided at one end with an opening 2 and a panel 3 is arranged to close over the said opening, the said panel being slidably mounted in guides 4 mounted on the outer surface of the end of the said box. The box 1 is provided at one side with an opening 5 over which is located a red or ruby glass 6. A panel 7 is arranged to close over the opening 5 and the glass located thereat and the said panel 7 is slidably mounted in guides 8, mounted at the inner surface of the side of the said box. A rack 9 is mounted at the side of the box 1 and is located interiorly thereof. The box 1 is provided at its top with a tray 11 and a curtain 12 depends from the top of the box 1 and forms one side of the said tray 11. The said curtain is of a material which will prevent the entrance of light from the box 1 into the tray.

The box 1 is provided at that side which is opposite the side at which the opening 5 and rack 9 are located with openings 13 and sleeves 14 are attached to the same side of the box and surround the said openings. The said sleeves are provided at their outer ends with elastics 15, the object of which will be explained hereinafter. The box 1 is further provided at its top side with an opening 16 over which is located a flexible hood 17. The said hood 17 is of a material which will prevent the passage of light from the exterior of the box through the opening 16. A coil spring 18 is mounted at one end upon the top of the box 1 and is connected at its upper end with a block 19 which is attached to the intermediate portion of the hood 17. The spring 18 is under tension with tendency to normally hold the hood 17 extended above the upper surface of the box 1. The block 19 is provided with a vertically disposed opening 20 which is in vertical alinement with the opening 16 in the top of the box. A shutter 21 is hingedly mounted at the lower end or side of the block 19 and the said shutter is preferably formed

from tin or similar material which will prevent the entrance or passage of light from the opening 20 to the opening 16 when the said shutter is in a closed position at the lower side of the block 19. A flexible element 22 as for instance a light wire is connected at one end with a lug 23 mounted at the edge of the shutter 21 and from the said lug the wire or flexible element 22 is threaded through an eye 24 attached to the top of the box 1 below the hood 17 and is then extended beyond the hood and connected with an eye or hook 25 also mounted at the top of the box 1. A pad 26 is mounted upon the upper surface of the block 19 and is provided with a central opening which registers with the opening 20 on the said block.

In practice the device is used as follows:— The panel 3 is raised and a tray (not shown) which contains the chemicals is passed into the box through the opening 2 and the said panel 3 is lowered to its closed position over the said opening. The sensitized paper may be deposited in the tray 11. The operator passes his hands through the sleeve 14 whereby the elastics 15 are permitted to fit snugly around his arms and the operator may then project his hands and forearms through the opening 13 into the interior of the box 1. He may then raise the panel 7 whereby rays of light from the exterior may enter the box 1 through the glass 6. He may then remove one or more pieces of paper from the tray 11 by slipping them under the curtain 12. During the stages of developing and when it is desired to observe the progress being made the operator may place his head against the pad 26 and force the same together with the block 19 in a downward direction against the tension of the spring 18 whereby the hood 17 is collapsed and the flexible element 22 is rendered slack. Inasmuch as the said element 22 while in its taut condition holds the shutter 21 in a closed position at the lower end of the opening 20 as soon as the said element 22 becomes slack the shutter 21 swings to an open position but the presence of the head of the operator upon the pad 26 prevents the entrance of light into the box 1 through the opening 20 of the block 19 and the opening 16 of the box 1. Inasmuch as the light is entering the box 1 through the glass 6 the operator may observe the plate which he can place at any desired position below the opening 16 by using his hand. As soon as pressure is moved from the pad 26 and the block 19 the tension of the spring 18 comes into play whereby the hood 17 is extended above the box 1 and the element 22 is rendered taut which in turn swings the shutter 21 to a closed position at the lower end of the opening 20 in the block 19.

As the plates are developed or finished within the box 1 they may be deposited in a fixing bath in the usual manner.

In the arrangement as shown in Fig. 2 a camera 27 is inserted through the opening 12 of the box 1 and a negative 28 may be supported in the said camera in any suitable manner. A block 29 is mounted at the end of the box and against which one side of the body of the camera 27 bears. A bail 30 or other suitable securing means may be employed for holding the frame of the camera 27 in position against the block 29. The lens 31 of the camera is positioned interiorly of the box. A board 32 is supported in the box in a plane parallel with the plate 28 which is supported in the frame of the camera and the said board is hingedly connected at one end with one end of the box and a catch 33 is mounted in the box and is adapted to engage the free edge portion of the board whereby the said board is held in parallel position with relation to the negative 28. Sensitized paper 34 is supported upon that side of the board 32 which is nearest the lens 31 and when the negative 28 and the lens 31 are subjected to light the images are produced upon the sensitized paper 34 on a larger scale than that in which they appear upon the negative 28. It is of course to be understood that during the process of printing or enlarging the operator may insert his arms and hands in the box through the sleeves 14 to accomplish any operation or manipulation which may be necessary to produce the printing and enlarging and he may also use the hood and shutter mechanism for observing the progress of the operation.

From the foregoing description taken in conjunction with the accompanying drawings it will be seen that means are provided whereby photographs may be developed, enlarged and printed in the open and in the absence of a dark room and furthermore that means are provided whereby the elements may be properly manipulated during the process of printing or developing and also means are provided for observing the progress of the several operations.

Having described the invention what is claimed is:—

1. A device of the character described comprising a box having an opening, a spring supported hood located over the opening, a shutter hingedly mounted in the hood, means for maintaining the shutter in a closed position when the hood is extended, said means adapted to permit the shutter to swing to an open position when the hood is collapsed.

2. A device of the character described, comprising a box having an opening, a spring supported hood located over the opening, a block carried by the hood and attached to the spring and provided with

an opening, a shutter hingedly connected with the block, and means for holding the shutter in a closed position over the opening of the block when the spring and hood are extended, said means being susceptible of permitting the shutter to swing to an open position when the spring and hood are collapsed.

3. A device of the character described comprising a box having an opening, a spring supported hood located over the opening, a block connected with the spring and the hood and provided with an opening, a shutter hingedly connected with the block and adapted to close over the opening thereof, and a flexible element connected at one end with the shutter and at its other end with the box and adapted to hold the shutter in a closed position when the hood is extended.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH TUREK.

Witnesses:

CHAS. F. BEST,

ELMER TRUITT.