

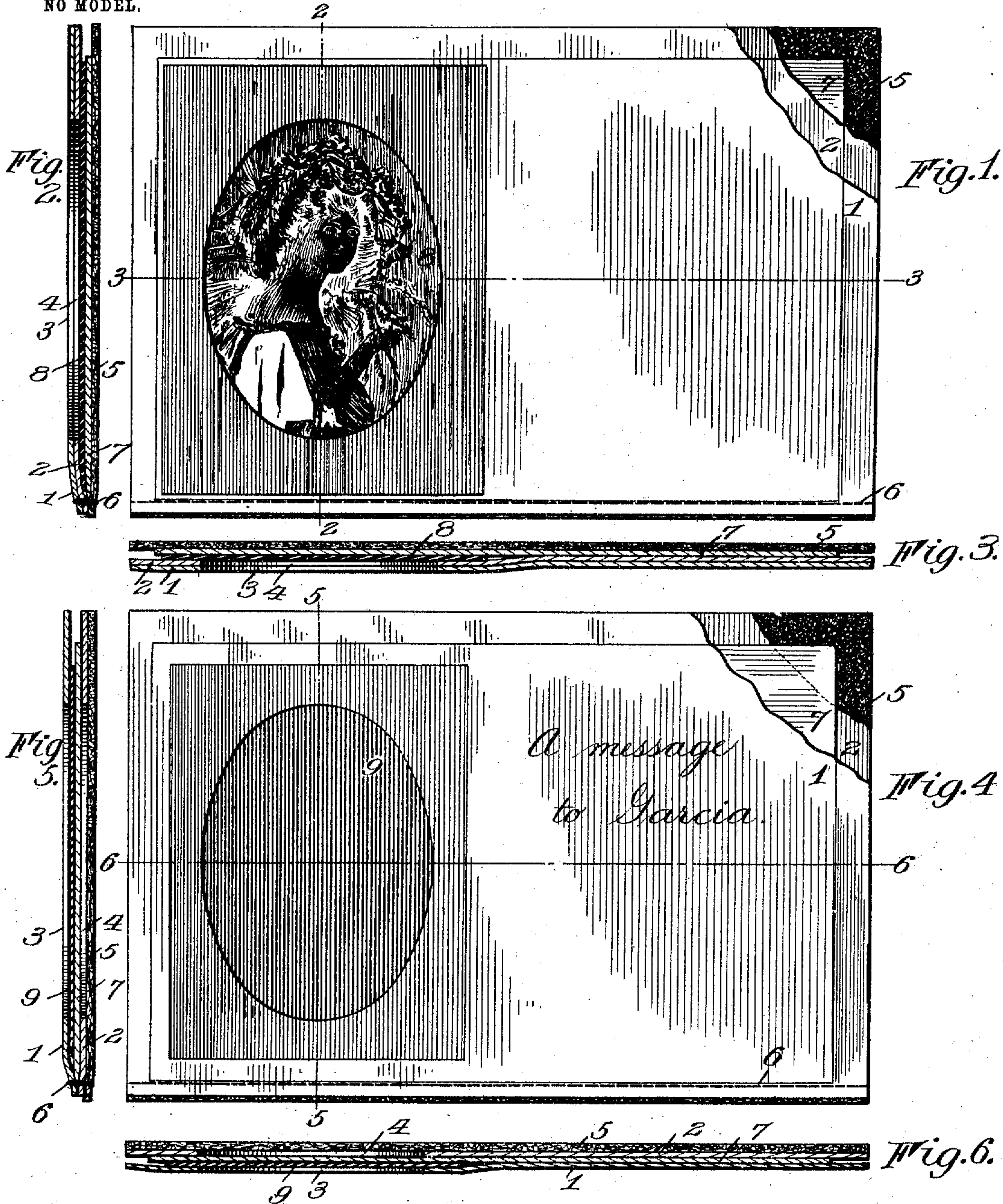
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J. S. CUMMINGS.
PHOTOGRAPHIC PRINTING DEVICE.

APPLICATION FILED JULY 27, 1904.

NO MODEL.



Witnesses.

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PHOTOGRAPHIC-PRINTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 772,342, dated October 18, 1904.

Application filed July 27, 1904. Serial No. 218,380. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. CUMMINGS, of Rochester, in the county of Monroe and State of New York, have invented certain new and
5 useful Improvements in Photographic-Printing Devices; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention relates to improvements in devices for use in obtaining prints from photographic negatives; and it has for
15 its object to provide a device of this character which is capable of producing a photographic print upon a suitably-sensitized medium, such as a postal card or the like, from the usual negative and also of reproducing upon the
20 sensitized medium a message or inscription in the simplest and best manner, each exposure upon the sensitized medium being rendered permanent by the development or other subsequent operation.

To these and other ends my invention consists in certain improvements and arrangements of parts, that will be hereinafter more fully explained, the novel features being
25 pointed out particularly in the claims hereunto annexed.

In the drawings, Figure 1 is a face view of a photographic-printing device embodying my invention, showing the negative in position for printing upon the sensitized medium.
35 Figs. 2 and 3 are sectional views upon the lines 2 2 and 3 3, respectively, of Fig. 1. Fig. 4 is a view similar to Fig. 1, showing the sensitized medium in position to receive an exposure for printing the inscription, the
40 shield being in position to protect the previous exposure from the photographic negative; and Figs. 5 and 6 are sectional views on the lines 5 5 and 6 6, respectively, of Fig. 4.

A photographic-printing device constructed
45 in accordance with my present invention embodies generally a tablet 1, which may be made of any suitable material capable of transmitting actinic rays therethrough, and in the present

instance I prefer to employ transparent celluloid or similar flexible material, the surface
50 of which may be roughened by sand-blast or other process for the purpose of providing a suitable surface to permit an inscription to be made thereon by a pencil or other suitable device and subsequently erased or otherwise
55 removed. Behind this transparent tablet 1 is located the screen 2, which is capable of absorbing the actinic rays and transmitting the non-actinic rays which pass through the transparent tablet 1, celluloid or other translucent
60 material being employed in the present instance, which is colored or tinted, so as to absorb the actinic rays of the light to which it may be exposed, the tablet 1 and the screen 2 being advantageously made of flexible material for facility in handling, although other
65 material may be found advantageous in some instances, and portions of these parts, preferably near their ends, are cut out, as at 3 and 4, respectively, these cut-out portions being
70 formed to register and are cut in any desired shape or pattern in order to produce a corresponding outline for the picture to be printed, as will hereinafter appear. Behind the tablet
75 1 and the screen 2 I prefer to employ a backing or support 5, although such a device may be omitted, if desired, this backing in the present instance being composed of some flexible yielding material—such as felt, cloth, or the like—or, if preferred, it may be substantially
80 stiff and rigid, suitable means being employed for uniting this backing and the tablet 1 and screen 2, a line of stitches 6 being employed in the present embodiment of my invention for binding these parts together in their
85 proper relation, which securing means may be utilized as a stop or gage for insuring the proper positioning of the card or other device to be printed.

A printing device of this character is particularly adapted to making prints upon cards
90 or other devices which have been rendered sensitive to the action of light, whereby it is possible to produce a photographic print from any desired negative upon one portion of the
95 sensitized device, while any desired inscription

or writing may be produced upon the remainder thereof, such a device being particularly advantageous in making prints upon sensitized postal cards and the like, and in manipulating such a device the sensitized card or other device 7 is inserted behind the screen 2 and the negative 8 is inserted in position behind the cut-out portions 3 and 4 and in front of the sensitized card, and with the parts in the positions described the device may be placed in a suitable frame or holder and subjected to light in the well-known manner until the exposure has been sufficient to produce an exposure from the negative 8. When this has been accomplished, the sensitized card or device 7 is removed from behind the screen 2 and placed in front of it and behind the tablet 1, and the negative is removed and a substantially opaque shield 9, which may be of any desired shape or configuration, is placed in position to protect the print upon the card which was produced from the negative from further exposure. The previous printing operation exposed only those portions of the sensitized medium which were opposite to the cut-away portion 4 of the screen 2, the remainder of the sensitized medium being protected from the light-rays by the said screen, but the subsequent printing operation will cause those portions of the sensitized medium which are not protected by the opaque shield 9 to be exposed to the light, and consequently a message or inscription which may be written or otherwise marked upon the tablet 1 will be reproduced and printed in the well-known manner upon the desired portion of the sensitized card or other medium. Thus it will be seen that by my invention a photographic print may be produced upon a sensitized card or other medium, which may be accompanied by a suitable message or inscription, the whole of which will be rendered permanent by the subsequent development or other treatment of the sensitized card or other medium, while the printing device may be employed as often as desired by erasing the markings previously inscribed upon the tablet 1 and by employing any desired negative in a manner similar to that above described.

The shield 9 may obviously be formed in various shapes or patterns in order that the unexposed background of the picture may be produced with the desired appearance, and likewise the outline of the cut-out portion 4 of the non-actinic screen 2 may be varied in order that any desired outline of the picture may be secured, it being understood, of course, that those portions of the sensitized medium which are protected by the screen 2 and shield 9 will remain unaffected by the light, and in order to secure these results any suitable material may be employed for the screen 2 and shield 9 which is capable of absorbing the actinic rays of light, and thereby prevent the exposure of the sensitized medium behind

them, although I prefer to employ a screen of celluloid or similar flexible material on account of its durability and ease in manipulation, and the shields 9 are preferably of cardboard or some other opaque material which may be readily and inexpensively made.

Postal cards and similar devices which have been properly sensitized may be rapidly and easily printed with the aid of a device of the character above described, which enables a photographic print to be produced upon a portion of the card or other device, while a suitable message or inscription may be similarly produced upon the remainder thereof, the arrangement being such as to enable entirely independent exposures for the separate printing operations, and thereby insuring the best possible results.

I claim as my invention—

1. A photographic-printing device embodying a non-actinic screen having a portion thereof formed to transmit the actinic light-rays, and a substantially transparent tablet, said screen and tablet being attached together and formed to receive the sensitized medium.

2. A photographic-printing device embodying a non-actinic screen having a portion thereof formed to transmit the actinic light-rays, a tablet arranged to register with the screen, and a shield for protecting the exposure produced upon the sensitized medium through that portion of the screen through which the actinic rays may pass.

3. A photographic-printing device embodying a non-actinic screen, a tablet attached thereto and arranged to permit the insertion of the sensitized medium between it and the screen, and adapted to receive an inscription which is capable of being transferred to the sensitized medium, and a shield formed separately from the screen for protecting a portion of the sensitized medium from the light-rays.

4. A photographic-printing device embodying a non-actinic screen having a portion thereof capable of transmitting the actinic rays of light, a tablet capable of receiving an inscription to be transferred to the sensitized medium, and a shield for protecting that portion of the sensitized medium previously exposed through that portion of the screen capable of transmitting the actinic rays.

5. A photographic-printing device embodying a non-actinic screen having a portion thereof capable of transmitting the actinic rays of light, a tablet capable of receiving an inscription to be transferred by exposure to the sensitized medium, means for securing the screen and tablet in register, and a shield for protecting that portion of the sensitized medium previously exposed through the screen.

6. A photographic-printing device embodying a non-actinic screen, a tablet capable of receiving an inscription to be transferred by exposure to the sensitized medium, and attaching means for securing the screen and tablet

in register and serving as a gage for the sensitized medium.

5 7. In combination with a photographic-printing device, of a translucent tablet capable of receiving an inscription to be transferred by exposure to the sensitized medium when the latter is arranged in juxtaposition therewith.

10 8. In combination with a photographic-printing device, of a translucent tablet composed of flexible material capable of receiving an inscription thereon adapted to be transferred by exposure to the sensitized medium when the latter is arranged in juxtaposition
15 therewith.

20 9. In combination with a photographic-printing device, of a translucent tablet composed of celluloid having a surface thereon capable of receiving an inscription to be transferred by exposure to the sensitized medium when the latter is arranged in juxtaposition
therewith.

25 10. A photographic-printing device embodying a backing, a screen capable of absorbing the actinic rays of light arranged in juxtaposition therewith, and a tablet capable of transmitting the actinic rays attached to the screen and backing, the arrangement being

such as to permit the insertion of the sensitized medium between the screen and the tablet or backing. 30

11. A photographic-printing device embodying a screen capable of absorbing the actinic rays of light, a backing or support arranged at one side thereof, and a tablet capable of transmitting the actinic rays arranged upon the opposite side of the screen, the screen, tablet and backing being each composed of flexible material and formed to receive the sensitized medium between them. 40

12. A photographic-printing device embodying a screen capable of absorbing the actinic rays of light and having a cut-out portion formed therein of a predetermined outline, a tablet arranged in juxtaposition with the screen and capable of receiving an inscription to be transferred by exposure to the sensitized medium, and a shield of predetermined pattern or outline for protecting a portion of the sensitized medium while the latter is being exposed to receive the inscription from the tablet. 50

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