No. 762,787. PATENTED JUNE 14, 1904.

R. P. WHEELER.

PROCESS OF MOUNTING PHOTOGRAPHS, PICTURES, &c.

APPLICATION FILED SEPT. 26, 1902.

NO MODEL.

Fig. 1.

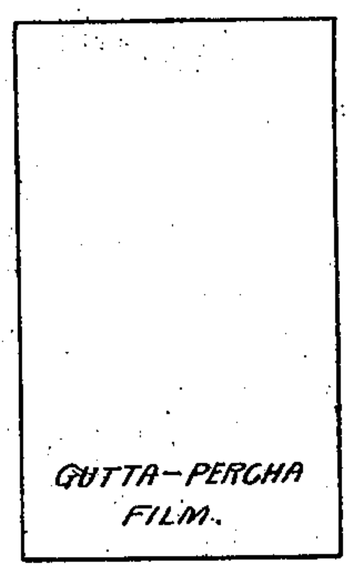


Fig. 2.

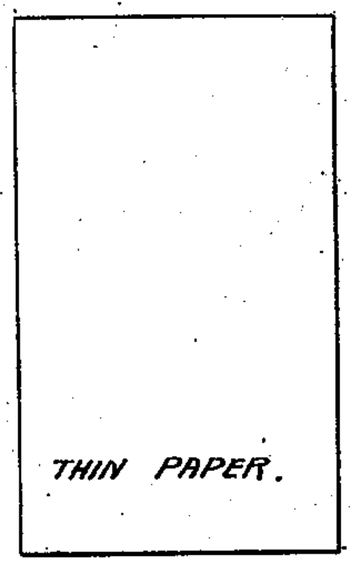


Fig. 3.

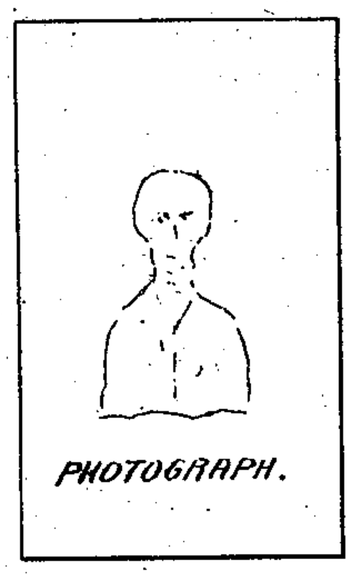


Fig. 4.

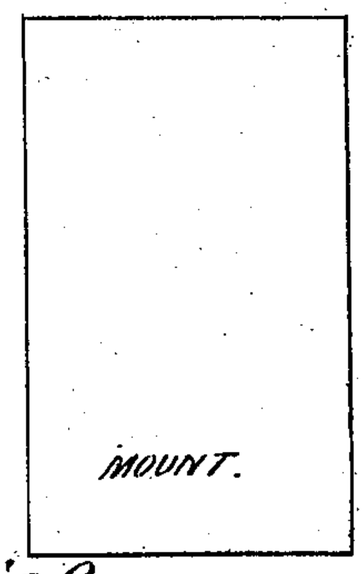


Fig. 5.

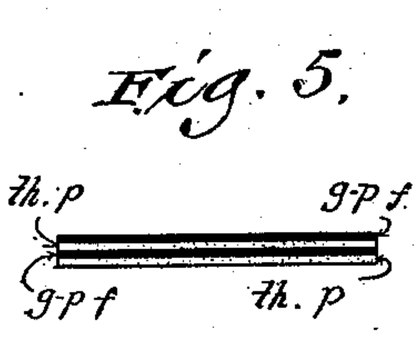


Fig. 6.

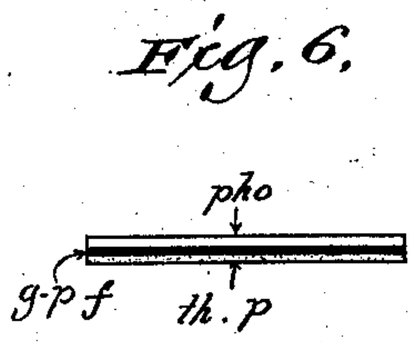


Fig. 7.

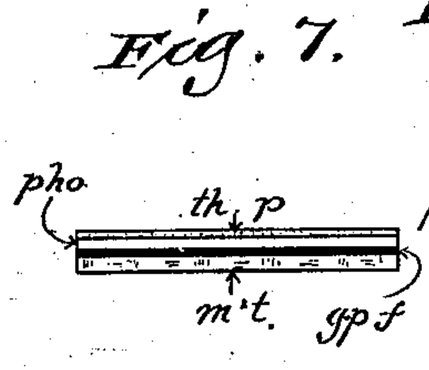


Fig. 8.

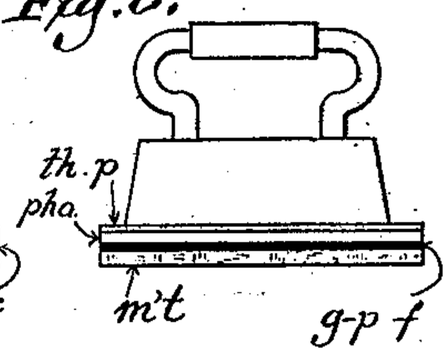
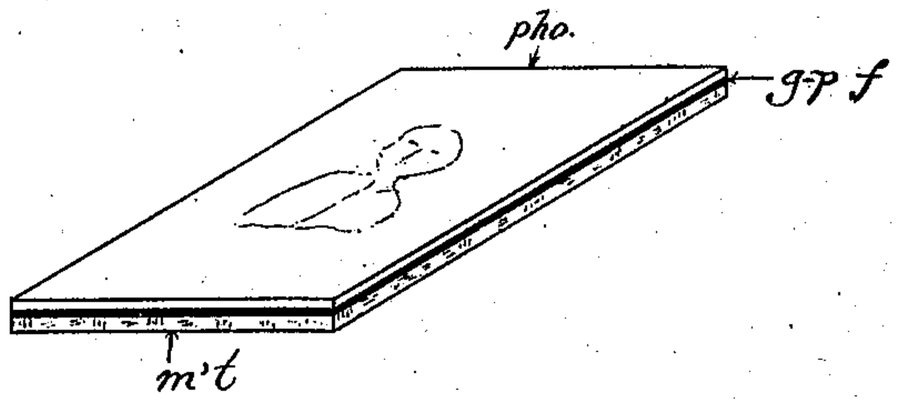


Fig. 9.



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Attorney

No. 762,787. Patented June 14, 1904.

UNITED STATES PATENT OFFICE.

ROBERT P. WHEELER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO HEINN SPECIALTY COMPANY, OF MILWAUKEE, WISCONSIN.

PROCESS OF MOUNTING PHOTOGRAPHS, PICTURES, &c.

SPECIFICATION forming part of Letters Patent No. 762,787, dated June 14, 1904.

Application filed September 26, 1902. Serial No. 124,969. (No model.)

To all whom it may concern:

Be it known that I, ROBERT P. WHEELER, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Processes of Mounting Photographs, Pictures, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to an improved process for mounting photographs, pictures, and the like; and it consists in the several steps hereinafter specifically set forth and subsequently claimed.

The accompanying drawings indicate the main steps of my said process, as hereinafter set forth, the thicknesses of the several strata being exaggerated for sake of clearness.

Figure 1 of said drawings represents a gutta-percha film; Fig. 2, a piece of thin paper; Fig. 3, an unmounted photograph, picture, or like object; Fig. 4, a thick cardboard mount; Fig. 5, a series of alternate sheets of film and thin paper; Fig. 6, a film with the photograph or like object on top of the same and a sheet of thin paper below; Fig. 7, the said film with the sheet of thin paper shifted to the top and replaced by a cardboard-mount at the bottom of the strata; Fig. 8, the same strata with a heated iron pressing thereon, and Fig. 9 the completed mounted object with the iron and sheet of thin paper removed.

I first take pure gutta-percha and dissolve the same in carbon disulfid and pour the solution upon a smooth surface (where it rapidly begins to harden) and roll the same into a large sheet or film of uniform thickness not exceeding the one one-thousandth of an inch. I next cut this large sheet into smaller sheets, preferably of about twenty-four by thirty-six inches, Fig. 1, and place a sheet of thin print-paper, Fig. 2, between each two adjacent sheets of the gutta-percha film, so that the whole is arranged in alternate layers of film and paper, Fig. 5, and then I again cut the sheets without disturbing the layers into standard sizes that correspond with the sizes of photographs taken by the different cameras in use. I next take the stiff cardboard or other "mount," Fig. 4, on which a photograph is to be mounted and take up said photograph, Fig. 3, and apply to the under side thereof a film of proper size, with the sheet of print-paper still beneath said film, and trim these three sheets (print-paper, film, and photograph) together, so that the edges are all even with each other, Fig. 6. Then I separate the film from the print-paper and the photograph and place said film on the mount in the proper position or location that the photograph is to occupy and place the photograph upon the film and the print-paper on the photograph, so that the edges of the three strata will all register with each other, as before, but now with the print-paper on top, Fig. 7. Next I heat an (preferably metallic) article having a smooth bearing-surface—such as a flat-iron, for example—to the required temperature—say from 150° to 200° Fahrenheit—and press the smooth heated surface upon the print-paper and strata beneath, Fig. 8, for a very short time—say fifteen seconds, more or less—and then remove the sheet of print-paper, and the photograph will be found to be firmly and smoothly secured to the mount, Fig. 9. In place of the hot flat-iron heated rollers or other smooth heated surfaces may be employed; but the described heated flat-iron is found to give excellent results, and the pressure can be regulated by the hand of the user, as found desirable in practice.

While I have referred in this description to the mounting of photographs, (which is the principal object of the invention,) it will be understood that it is equally as effective for the smooth unwrinkled mounting of any similar thin objects, such as etchings, engravings, prints, or other pictures, or thin sheets of printed or engraved matter of any sort, or the like.

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

1. The herein-described process of mounting photographs, pictures and the like consisting in alternating sheets of gutta-percha films and thin paper and cutting same collect-

ively to the desired size; next, taking one of these gutta-percha films, with the paper beneath the same, and placing a photograph, picture, or like object upon the upper surface of the said film, and making the edges of all coincide; then, shifting the thin paper from the bottom to the top of the strata, and substituting a mount for the said paper as the bottom layer; next, subjecting the whole strata to the action of heat and pressure, and finally removing the thin paper, leaving the photograph, picture or other like object firmly united to the mount by the interposed gutta-percha film.

2. The herein-described process of mounting photographs, pictures, and the like, consisting in the following steps in the order named; first, dissolving pure gutta-percha in carbon disulfid; second, pouring the solution upon a smooth surface, and letting it remain there until it begins to harden; third, rolling the same into a large sheet or film of uniform thickness, not exceeding the one one-thousandth of an inch; fourth, removing said film from the said smooth surface, and cutting this large sheet into smaller sheets; fifth, placing a sheet of thin print-paper between each two adjacent sheets of the gutta-percha films, and again cutting the said sheets, without disturbing the layers, into smaller standard sizes; sixth, taking a photograph, picture, or other object to be mounted, and applying to the under side thereof a film of gutta-percha with the sheet of print-paper still beneath said film, and trim said three sheets (of print-paper, film, and photograph or other object) together, so that their edges are all even with each other; seventh, separating the film from the print-paper, and from the photograph or other object; eighth, taking a stiff cardboard or similar mount, and placing the said film thereon; ninth, placing the photograph or other object to be mounted upon said film; tenth, placing the said print-paper upon the said photograph or other object, so that the edges of the film, photograph or other object, and print-paper, shall all register, as before, but with the print-paper now on top, and the mount at the bottom, and eleventh, subjecting the whole strata to the action of heat and pressure.

In testimony that I claim the foregoing I have hereunto set my hand, at Chicago, in the county of Cook and State of Illinois, in the presence of two witnesses.

ROBERT P. WHEELER.

Witnesses:
WM. C. VANDAN BERG,
C. E. MOREHOUSE.