

No. 678,262.

Patented July 9, 1901.

A. LEMBACHER.
PROCESS OF PRODUCING RELIEF PICTURES.

(Application filed Oct. 1, 1900.)

(Model.)

Fig. 1

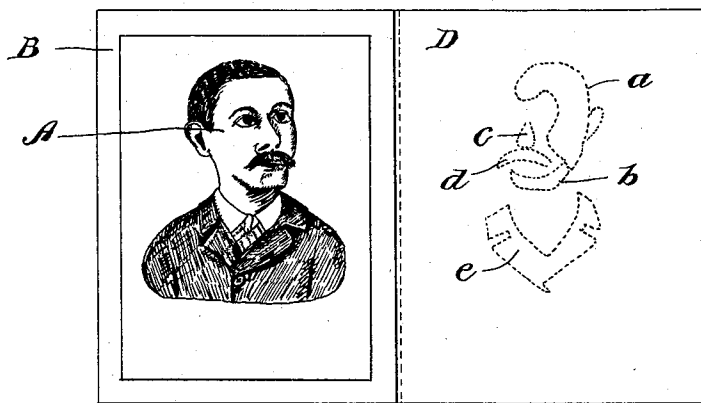


Fig. 2

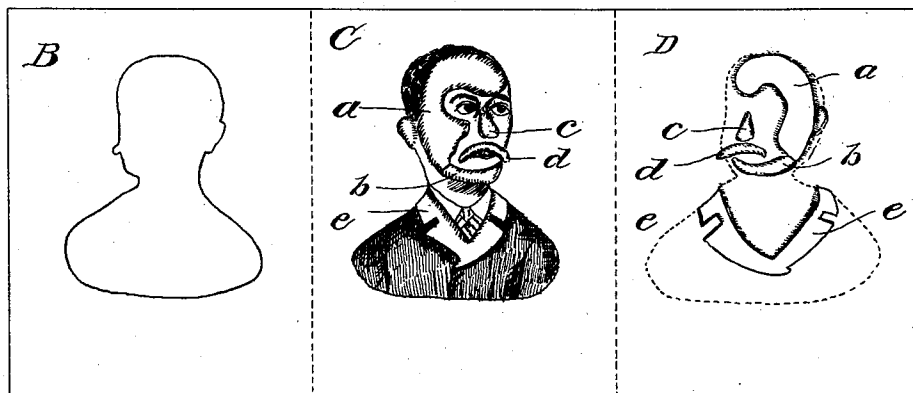
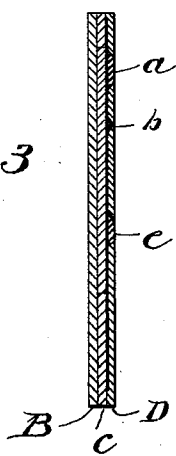


Fig. 3



Witnesses:

J. D. McMahon.
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UNITED STATES PATENT OFFICE.

ALOIS LEMBACHER, OF GALATZ, ROUMANIA.

PROCESS OF PRODUCING RELIEF-PICTURES.

SPECIFICATION forming part of Letters Patent No. 678,262, dated July 9, 1901.

Application filed October 1, 1900. Serial No. 31,653. (No specimens.)

To all whom it may concern:

Be it known that I, ALOIS LEMBACHER, a subject of the Emperor of Austria-Hungary, and a resident of Galatz, Roumania, have invented certain new and useful Improvements in the Process of Producing Relief-Pictures and the Like, of which the following is a specification.

The object of my present invention is to provide an improved process whereby relief-pictures and the like may be easily produced and in which the projecting parts are arranged with respect to the background of the picture in accordance with the natural conditions.

My improved process may be applied to photographs, medallions, or commercial address-cards of any desired kind in which figures or the like should suitably project from the background like ordinary relief-pictures.

In order to make my invention easily understood, I will now proceed to describe the same as applied to the production of the relief-photograph of a figure by means of an ordinary photograph, reference being had to the accompanying drawings; in which—

Figure 1 represents conventionally the initial step in the process—to wit., a photograph mounted upon cardboard and superposed upon another cardboard to have the outline cut out and the detached figure pasted upon said second card, the part to the right indicating in dotted lines pieces to be cut out and applied to the photograph from a third sheet or leaf of cardboard to give relief. Fig. 2 represents said cardboard extended or unfolded, the left-hand leaf showing the outlines of the photograph cut out and pasted to the central leaf, said central leaf showing the photograph with relief-pieces applied and the right-hand leaf indicating the relief-pieces taken out for application to the photograph in the center; and Fig. 3 is a transverse section showing all three leaves arranged for the action of a press to mold the finishing photograph over the built-up relief.

In carrying out my invention I cut out a copy of the figure-photograph A, pasted on a suitable cardboard B or other flexible material, along the outlines thereof, and then paste the detached part upon a piece of cardboard C. Then I paste a second copy of the

photograph in reverse on another cardboard D, and I cut out therein other smaller portions *a b c d e*, &c., which shall project farther from the background of the final relief. These smaller detached portions are then pasted upon the previously-detached portion already secured upon a common base. These operations may be repeated several times—that is, I may paste a third copy of the photograph upon a piece of cardboard and then cut out therein still smaller portions, which are then secured upon the secondly-detached portions, already secured upon the firstly-detached portion, pasted upon a common base constituting the background of the final relief, and so on. The edges of the detached portions are preferably beveled before securing them upon each other, so as to obtain a slowly-ascending passage from one portion to the other. Thus I obtain a matrix-relief composed of superposed portions suitably pasted together. Upon this relief I place the photograph to be produced in relief with the back opposite to the reliefs and so that all the parts thereof correspond with the respective parts of the relief, and upon said photograph I place successively the pieces of cardboard from which the several portions of the matrix-relief have been cut out, these pieces being superposed in the order in which they have been cut out.

The last step of my improved process consists in submitting all the superposed parts to the action of glazing or pressing rollers, whereby the above-named matrix is pressed into the rear side of the flat photograph, the pressed portions of the latter projecting into the recessed parts of the cut-out pieces of cardboard placed upon the photograph for this purpose.

In order to facilitate the superposing of the several parts, the background or common base of the matrix-relief may be made integral with the several pieces of cardboard to be cut out, as described, so that these pieces may be easily folded upon the common base after the insertion of the flat photograph.

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

The improved process of producing relief-pictures and the like, which consists in first

securing a copy of the picture upon a suitable flexible material, cutting out therefrom the parts to be in projection on the relief, and securing the detached parts upon a common
5 base, securing a second copy of the picture upon a flexible material, cutting out therefrom smaller parts to be still further in projection on the final relief, and securing these detached parts upon the corresponding points
10 of the firstly-detached part secured upon the common base, &c., until the desired fullness is reached; placing upon the matrix-relief thus obtained, the ordinary flat picture face out-

ward, and placing upon the latter, the successively cut-out copies of the picture, so that 15 the several points thereof will correspond with each other; finally submitting all these superposed parts to the action of glazing or pressing rollers, substantially as set forth.

In testimony whereof I have hereunto set 20 my hand in presence of two witnesses.

ALOIS LEMBACHER.

Witnesses:

JAS. R. JACKSON,
JAMES BERUSTE.