

UNITED STATES PATENT OFFICE.

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TRANSFER-SURFACE FOR LITHOGRAPHIC PURPOSES AND MANUFACTURE OF SAME.

SPECIFICATION forming part of Letters Patent No. 614,029, dated November 8, 1898.

Application filed January 15, 1898. Serial No. 666,823. (No model.)

To all whom it may concern:

Be it known that I, JOHANN ROTTACH, a subject of the Emperor of Austria-Hungary, residing at 61 Mariahilferstrasse, Vienna, Empire of Austria-Hungary, have invented new and useful Improvements in Transfer-Surfaces for Lithographic Purposes and in the Process of Manufacturing the Same, of which the following is a specification.

My invention relates to transfer-surfaces for lithographic purposes and to the process of manufacturing the same, and has for its object to provide an efficient, durable, and cheap transfer-surface which is light in weight and requires little space when kept in store and which may be repeatedly used for transferring the drawing or other design produced on the same to lithographic stones.

According to my invention I produce transfer-surfaces for lithographic purposes as follows: I apply to a plane surface of metal, wood, leather, fabric, or paper, but preferably of cardboard of medium thickness, a coating or ground consisting of one thousand parts, by weight, of water, one hundred parts, by weight, of gelatin, one to five parts, by weight, of glycerin, and so much of zinc-white that the paste formed of these ingredients may be still applied to the surface by means of rollers. I then pour over such coating when dry a concentrated aqueous solution of alum. When the whole has dried, I may again pour the alum solution over the coating and then dry it, and repeat this operation until the coating has become insoluble in cold water; but usually one or two treatments with alum solution will be found sufficient. The transfer-surface is then ready for use. The proportions above given may vary considerably without affecting the result to be obtained.

The drawing or design to be transferred is drawn or otherwise produced on the transfer-surface obtained as above described with ordinary lithographic ink or crayon (chalk) in any usual or desired manner, and, if desired, the transfer-surface is then coated with gum solution for better preserving the drawing. For transfer the gum coating is washed off

and transfer-ink is then applied to the transfer-surface in the usual way—viz., after moistening such surface with a weak gum solution. After drying the transfer-surface is placed on the stone and the whole is passed through the press once or twice. The transfer-surface is then taken off the stone, which can be done without any difficulty and without in any way damaging the drawing or design on the transfer-surface and the latter itself. The printing with the stone may then go on in the usual way, and a fresh transfer from the transfer-surface may be made, as described, or the transfer-surface may again be coated with gum solution for keeping it on store for any desired length of time. In this way any desired number of transfers may be made from my improved transfer-surface, so that instead of the heavy and expensive stones the light inexpensive transfer-surfaces, which, moreover, occupy little space and may even be wound up in rolls, may be kept on store for reprinting.

I claim—

1. A process of manufacturing transfer-surfaces for lithographic purposes consisting in applying to a plane surface of metal, wood, leather, fabric, paper or cardboard a coating of water, gelatin, glycerin and zinc-white mixed to form a paste, in then alternately drying such coating and pouring over it a concentrated aqueous solution of alum and repeating these latter two operations until such coating has become insoluble in cold water.

2. As a new article of commerce a transfer-surface for lithographic purposes consisting of a backing of metal, wood, leather, fabric, paper or cardboard and of a coating thereon substantially consisting of zinc-white, gelatin and glycerin such coating having been rendered insoluble in cold water by alum.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHANN ROTTACH.

Witnesses:

CARL ROTTACH,

OTTO ROSSMANILLY.