

UNITED STATES PATENT OFFICE.

THEOPHILUS MILLOT AND JAMES MILLOT, OF NEW YORK, N. Y.

PROCESS OF TRANSFERRING A PRECIPITATED OR REDUCED METAL.

SPECIFICATION forming part of Letters Patent No. 345,442, dated July 13, 1886.

Application filed November 18, 1885. Serial No. 183,222. (Specimens.)

To all whom it may concern:

Be it known that we, THEOPHILUS MILLOT and JAMES MILLOT, both of the city, county, and State of New York, have invented a new and Improved Process of Transferring a Precipitated or Reduced Metal from a Plate to the Face of a Sheet of any Flexible Material, of which the following is a full, clear, and exact description.

10 To carry our invention into effect we take a plate of any material having a hard surface, but preferably employ a plate of glass, and as a preliminary step we clean the surface of the plate, after which we apply to the cleaned surface a mixture of soap and talc or soapstone, or any other substance which will decrease the cohesion or affinity between the plate and the metal to be deposited thereon. After the application of the soap and talc or soapstone, or other material, we wipe the plate, after which the metal to be transferred is precipitated upon the plate by any of the well-known processes of precipitation. After the precipitation of the metal we apply a thin coating of glue, gelatine, or other viscid sticky substance, such coating being laid either on the precipitated metal or on the material to which the transfer is to be made, according to the circumstances of the case. In case the viscid substance is applied to the precipitated metal, the treated surface of the plate is covered with water or a proper liquid solvent after the viscid substance is dry, and the material to which the transfer is to be made is then placed over the plate, the excess of liquid is expelled, and the whole left to dry; but in case the viscid coat is applied to the material to which the transfer is to be made such material is placed directly upon the treated surface of the glass or other plate before the viscid coat has

dried, and the material is in this case pressed firmly upon the deposited metal, in order to exclude all air-bubbles. After the parts are apparently dry the plate, with its coverings, is heated by any proper means, and then the material is seized and stripped from the plate while it is still warm, and in operation it will be found that the metallic coating will also be stripped from the plate and will adhere to the material.

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

1. The herein-described process of transferring a metallic deposit, which consists in precipitating the metal upon a hard surface, applying the material to be coated to such deposit, a coating of viscid substance being interposed, permitting the material to dry upon said metallic deposit, slightly warming the whole, and then stripping the material and deposit from the plate, substantially as described.

2. The herein-described process of transferring a metallic deposit, which consists in precipitating the metal upon a hard surface, in then applying a coat of viscid substance to such deposit, flowing the plate, placing the material to which the transfer is to be made upon the treated surface of said plate, expelling the excess of solvent, warming the whole, and stripping the material and the deposit from the surface of the plate, substantially as described.

THEOPHILUS MILLOT.
JAMES MILLOT.

Witnesses:

EDWARD KENT, Jr.,
C. SEDGWICK.