

UNITED STATES PATENT OFFICE.

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METHOD OF MANUFACTURING LEAF METAL FOILS.

1,023,713.

Specification of Letters Patent.

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No Drawing.

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To all whom it may concern:

Be it known that I, HANS BEER, citizen of Germany, residing at Munich, Bavaria, Germany, have invented certain new and useful Improvements in Methods of Manufacturing Leaf Metal Foils; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an improved method of manufacturing metal foil in leaf form adapted for embossing, stamping and like purposes. In the manufacture of such foils it has heretofore been customary to provide a suitable base upon which the metal leaf was spread, and thereafter a thin film of a suitable adhesive substance such as resins, glue and the like in liquid form was run over the leaf lying on its support. This procedure is unsatisfactory in that the liquid adhesive tends to penetrate through the metal leaf and come in contact with the support upon which the latter lies, and when the leaf with its adhesive backing is removed from the support the leaf is torn and parts are rendered practically useless.

The main object of my invention is to overcome the defect in the existing method, and in carrying my invention into practice I first form a suitable layer or film of thin liquid adhesive material such as gum or glue in any suitable way as by pouring it upon a suitable non-adhering level surface and permit this to become partially dry to a sticky or tacky but coherent condition, and when in such partly dried condition I

place on this film or layer of adhesive, a layer of metal leaf, then removing and permitting the adhesive to dry entirely whereby the metal leaf adheres intimately to the adhesive forming with it an entity. Or the film or backing with the metal foil applied thereto may be allowed to dry upon the level non-adhering surface and after drying, the film and foil removed as an entity. I thus provide a pliant layer which may be subsequently used for stamping and embossing or for such other purposes as may be desired, there being practically no danger of the metal leaf becoming disengaged from the thin adhesive backing therefor.

I find in practice that a product according to my invention is highly brilliant and is well adapted for many purposes to which such metal leaf foils as heretofore prepared were not adapted.

I claim:—

The method herein described of making metal foil in leaf form which consists in forming a sheet of liquid adhesive material in any suitable way upon a non-adhering surface, partially drying said sheet to a sticky but coherent condition, applying to said sheet when in such condition a covering of metal leaf and removing the leaf and sheet from the non-adhering surface and completing the drying substantially as described.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HANS BEER.

Witnesses:

ARTHUR T. RIVERS,
A. V. W. COTTER.