

O. NEUBERT.

Process of Making Patterns or Copies of Statuary and
other Figures in Wax.

No. 223,603.

Patented Jan. 13, 1880.

Fig. 1

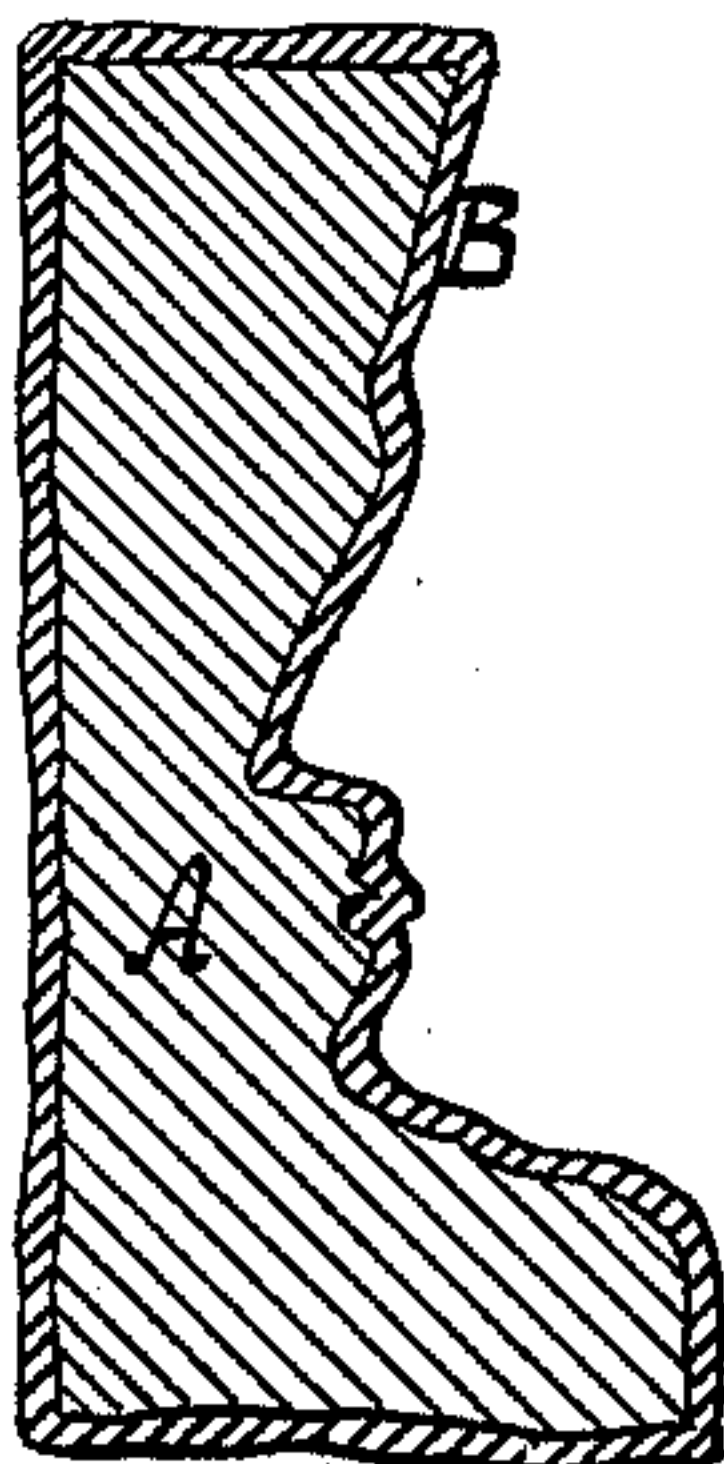
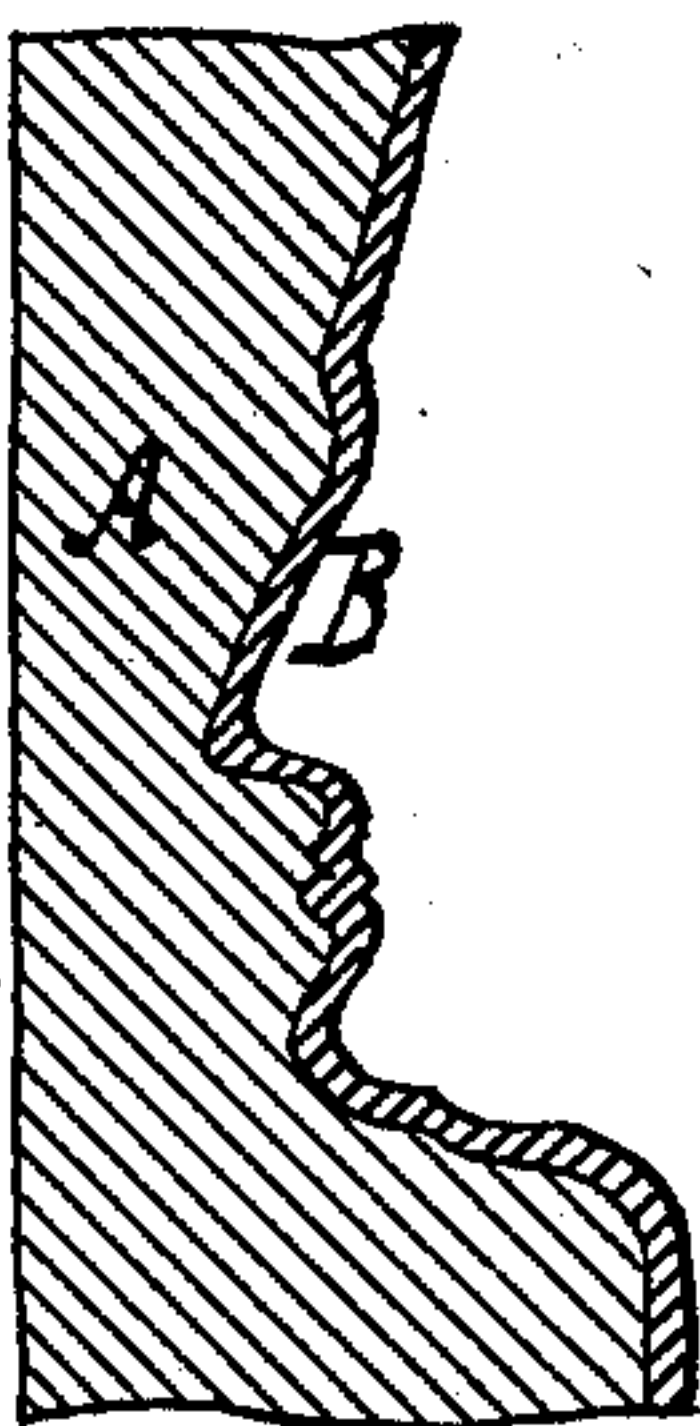


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

OSCAR NEUBERT, OF NEWTOWN, NEW YORK.

PROCESS OF MAKING PATTERNS OR COPIES OF STATUARY AND OTHER FIGURES IN WAX.

SPECIFICATION forming part of Letters Patent No. 223,603, dated January 13, 1880.

Application filed December 5, 1879.

To all whom it may concern:

Be it known that I, OSCAR NEUBERT, of Newtown, in the county of Queens and State of New York, have invented a new and Improved Process of Making Patterns or Copies of Statuary and other Figures in Wax, which invention is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a piece of statuary as it appears after being dipped according to my invention. Fig. 2 shows the same after being trimmed.

Similar letters indicate corresponding parts.

My invention consists in a certain novel process of making patterns, in wax or analogous material, of hollow figures—as statuary—to cast from and reproduce in metal, such pattern being also adapted to other uses, as to represent copies of the figures.

The customary way of making patterns of statuary for casting is to obtain a reverse of the figure or part of the figure to be reproduced with plaster-of-paris, and cover the face thereof with a layer of clay, and then spread or cast over the whole a sufficient quantity of plaster-of-paris to form one part or section of a mold, of which the reverse first named forms the other section. The plaster is allowed to set, and then the two sections referred to are taken apart and the clay is removed. The sections are then again put together, and molten wax or analogous material is poured between them in sufficient quantity to fill the space left by the removal of the clay. In this manner there is formed a layer of wax, which constitutes a pattern to be cast from in metal by embedding the same in sand, in the usual way.

In carrying out my invention I take the part A, which is or contains the reverse of the figure to be reproduced, and dip the same in wax or analogous material, thereby coating the same with a layer of such material, as at B, Fig. 1. I repeat this operation a number of times—namely, until a layer of the required thickness

is obtained—and usually dip the part in water after each immersion in the wax, in order to cool and harden the latter. I then trim or divest the reverse of the surplus wax—that is to say, of all the wax excepting that upon its face, (see Fig. 2,) which latter portion is then separated from the reverse, and constitutes a pattern substantially like the one obtained by the old process.

It will be seen that by my invention I dispense with the clay and the upper section of the mold heretofore used, and thus save both labor and material.

Another advantage gained is, that the pattern obtained by my invention has a uniform thickness, to obtain which was heretofore impracticable, owing to the difficulty involved in spreading the clay in an even layer on the face of the reverse.

It is obvious that the pattern obtained by my invention may be used to represent copies of the figures from which the reverse is taken, in lieu of being used to cast from, and, if desirable, the wax adhering to what I have termed the “reverse” may be pressed between the face thereof and a second face or reverse to reproduce ornaments, such as leaves.

What I claim as new, and desire to secure by Letters Patent, is—

The process of making patterns for casting or copies of statuary, consisting in dipping the part from which the pattern or copy is to be made in wax or analogous material, thereby coating the part with a layer of such material, said part being or containing the reverse of the figure which is to be reproduced, and then removing the surplus wax, substantially as hereinbefore set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of November, 1879.

OSCAR NEUBERT.

Witnesses:

J. VAN SANTVOORD,
CHAS. WAHLERS.