

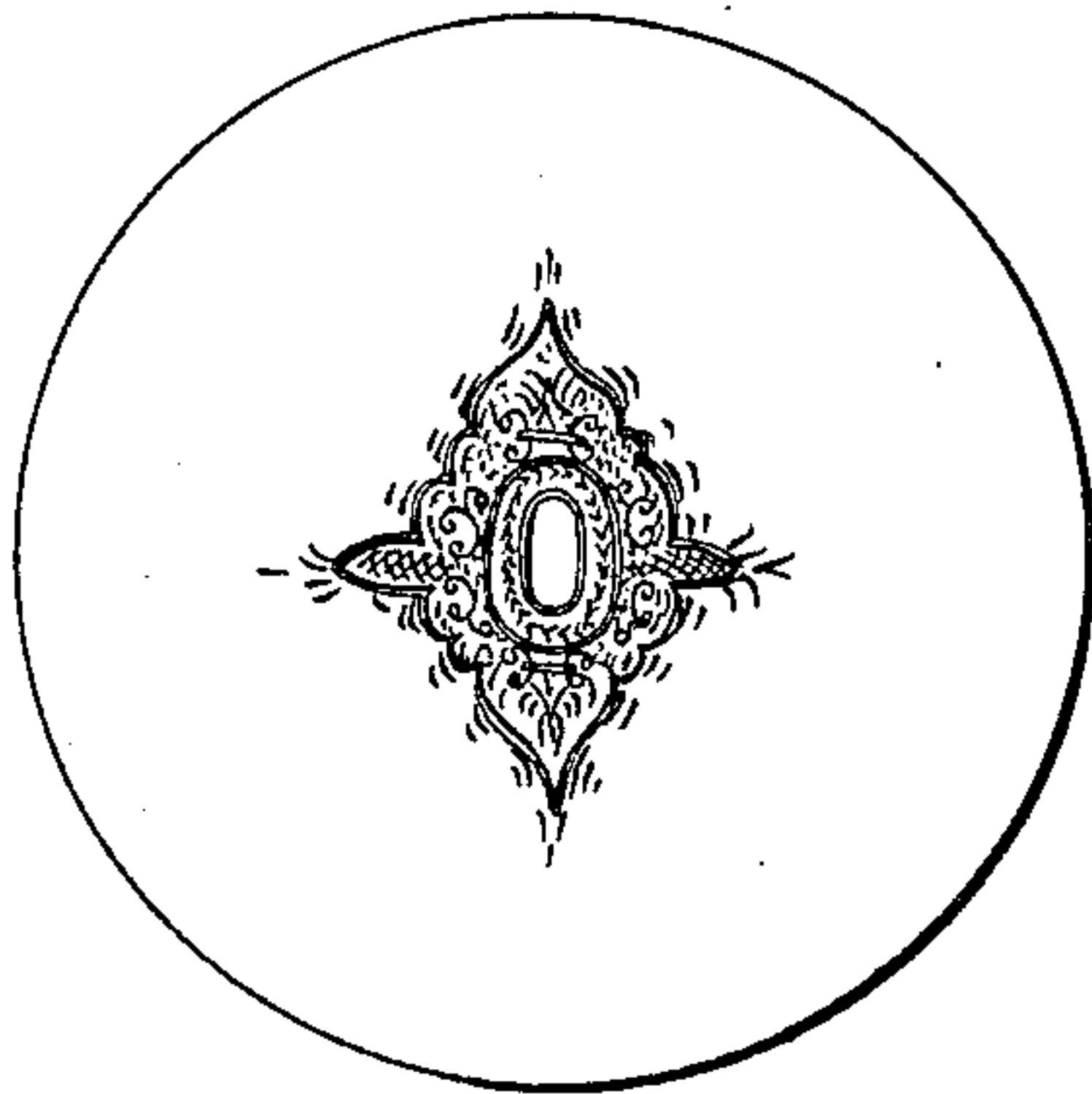
*J & W Toothill.*

*Ornamenting Metal Ware.*

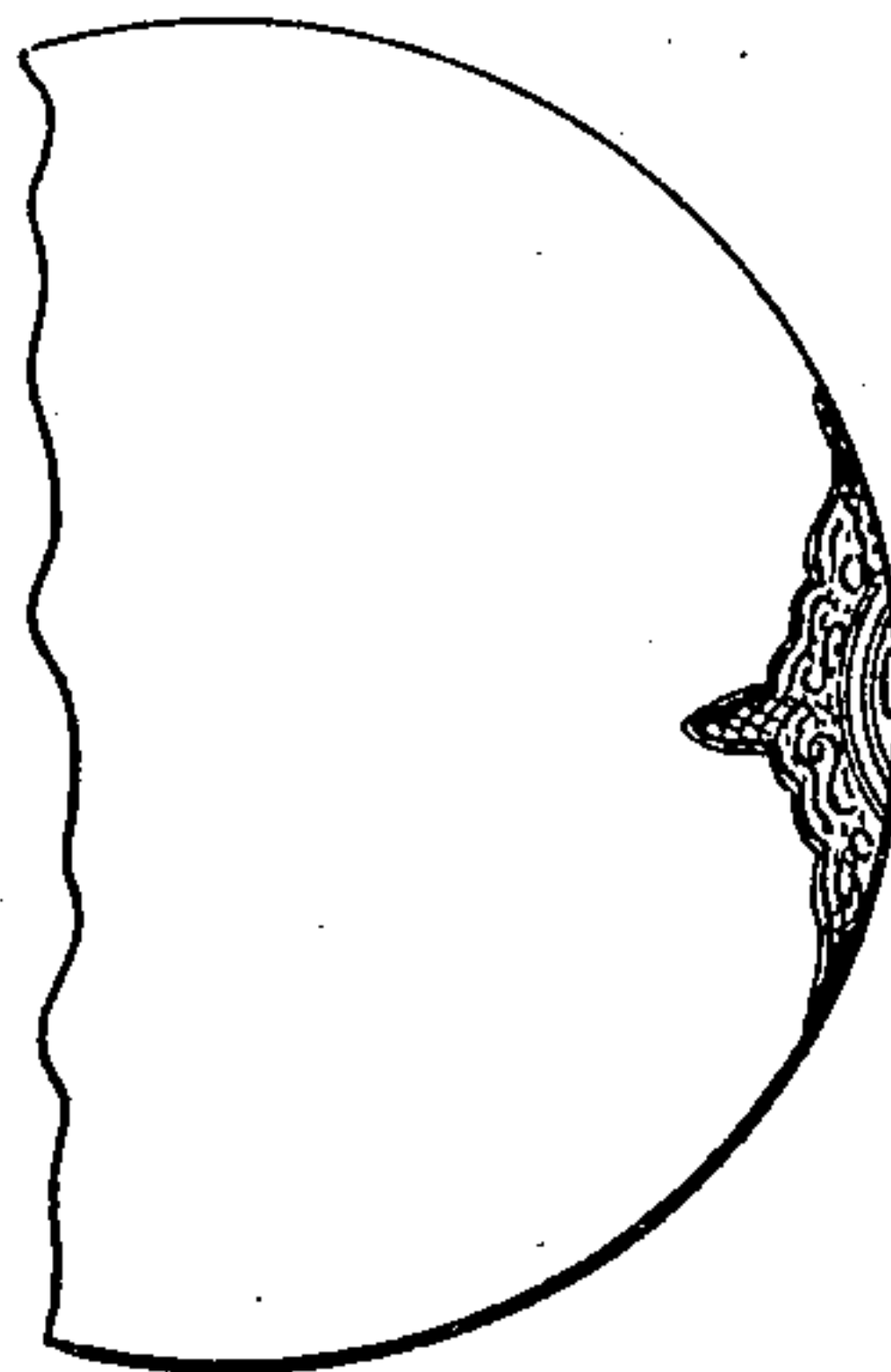
*N<sup>o</sup> 89,360.*

*Patented Apr. 27, 1869.*

*Fig: 1.*



*Fig: 2.*



*Witnesses*  
*J. H. Shumway*  
*A. J. Tibbitts*

*Inventor*  
*John & William Toothill.*  
*By their Attorney*  
*John E. Earl.*



JOHN TOOTHILL AND WILLIAM TOOTHILL, OF MERIDEN, CONNECTICUT.

*Letters Patent No. 89,360, dated April 27, 1869.*

**PROCESS OF ORNAMENTING SHEET-METAL WARE.**

*The Schedule referred to in these Letters Patent and making part of the same.*

*To all whom it may concern:*

Be it known that we, JOHN TOOTHILL and WILLIAM TOOTHILL, of Meriden, in the county of New Haven, and State of Connecticut, have invented a new Process for Ornamenting Silver or Plated Ware, or Goods; and we do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a front view, and in  
Figure 2, a side view of the die.

This invention relates to a process for ornamenting silver, plated, and other ware, the object being to reduce the cost of such ornamentation, which is now performed by first filling the article with wax, or other similar material, then drawing, or indicating upon the surface the figure or ornamentation to be made thereon, and then, by suitable tools, to cut or indent the surface, the wax or filling being of such a nature as to permit the indentation of the metal into the filling.

This, it will be observed, involves no small outlay of time and money.

Our invention consists in forming a die, upon the surface of which the figure is cut, or raised to suitable extent, then placing the die in the lathe, or machine, which will cause the die to revolve; place the metal upon or against the die, and with a burnisher, or suitable instrument, spin or work the metal in or on to the die, as the case may be, employing a sufficient amount of pressure to force the metal into the cut surface, so

that the figure will be clearly defined upon the surface of the metal, when removed from the die.

To enable others to fully understand our invention, we will describe the same, as illustrated in the accompanying drawing.

We first prepare a die, in accordance with the article to be produced, as seen in fig. 1, by cutting or raising the figure upon the surface of the die. Then place the die in a lathe or other instrument, to cause the die to revolve, and place the metal to be embossed against, and so as to revolve with, the die, and then, with a burnisher or other suitable instrument, press, spin, or work the metal down upon the die, the metal used being of such a nature that it will work into, or receive the impression from the ornamentation on the die, and when removed from the die the ornamentation will be found clearly defined, but, of course, reversed upon the article.

By this process a great number of articles may be produced in the same die, and at comparatively trifling expense.

Having fully described our invention,

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

The process herein described for ornamenting silver and plated ware.

JOHN TOOTHILL.  
WM. TOOTHILL.

Witnesses:

JOHN H. BARIO,  
JOHN ARNOLD.