

C. Kaufmann,

Ornamenting Sheet Metal.

No. 111,216.

Patented Jan. 24, 1871.

Fig. I.

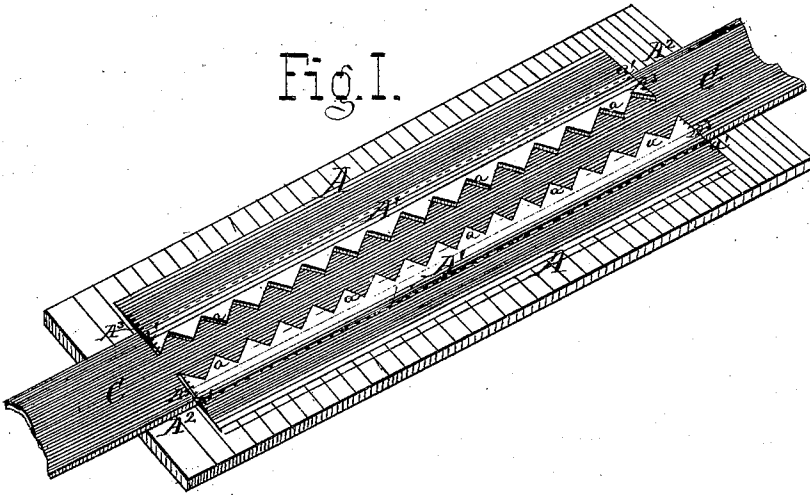
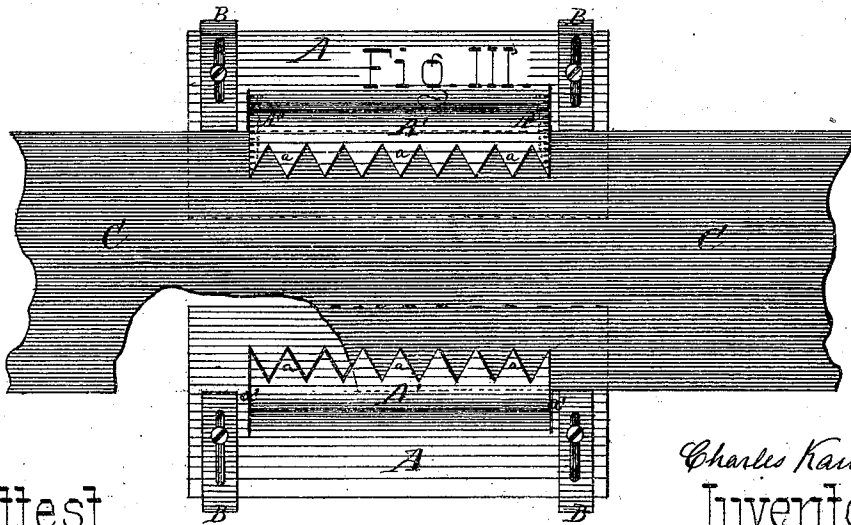


Fig. II.



Attest

A. Ruffert
Chas. H. Caldwell

Charles Kaufmann
Inventor
by
F. Clausen
his Agent

United States Patent Office.

CHARLES KAUFMANN, OF OCONOMOWOC, WISCONSIN.

Letters Patent No. 111,216, dated January 24, 1871.

IMPROVEMENT IN DIES FOR ORNAMENTING SHEET METAL.

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

To all whom it may concern:

Be it known that I, CHARLES KAUFMANN, of Oconomowoc, in the county of Waukesha and in the State of Wisconsin, have invented a new and useful Improvement in Dies to be Employed in the Ornamentation of Sheet Metal; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view of my improved die.

Figure 2 is a vertical transverse section of the die and the therein-inserted metal sheet.

Figure 3 is a plan view, in which the die is represented in two parts, each part adjustable.

The same letters of reference are employed in the several figures of the drawing.

The nature of my invention relates to the construction of dies to be employed in the ornamentation of sheets of metal from which household and other wares are made; and

My improvement consists in forming such die in a plate of sheet metal by punching the outline of the desired design therein, leaving the base of the die thus formed connected with the plate and surrounded upon the other sides by a rim closely fitting the outline of the die, so that the metal sheet to be ornamented can be inverted under the die resting on the surrounding rim, and the outline of the ornament be sharply defined by the combined action of the die and rim in the act of stamping.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In constructing these dies I employ a plate, A, of sheet metal, and cut the outline of any desired design through it, by a sharp punch or other suitable instrument, taking care that the cut may be made as narrow as possible.

This ornamental cut *a* terminates at each end in a straight cut, *a'*, at right angles to its general direction, thereby forming a die, A¹, connected at its base with the plate, and surrounded upon its other sides by a rim, A², closely fitting the cut *a*.

Scales A³ A³ may be formed along the cuts *a* *a'*, and adjustable guides B B be employed to determine the height or width of the ornament to be stamped upon the sheet of metal, and also determine the distance from the edge of the metal sheet.

In operating this ornamental die the sheet metal is clipped under the part A¹ resting upon the rim A², with its edge abutting against the guides B B. The impression can then be made by means of a hammer, or by passing the die with the sheet through suitable rollers, or by any other preferred means.

When the metal sheet to be stamped is very wide, an adjustable die on each edge of the sheet may be the most convenient means of stamping or transferring the ornament over on said sheet.

The die might also be so constructed that the part A¹ could be adjustable, and allow different ornamental designs to be placed in the same die.

Having thus described my invention,

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

1. The herein-described die for forming ornaments on sheets of metal, consisting of the parts A¹ and A², substantially as set forth.

2. In combination with the parts A¹ and A², the guides B B, substantially as specified.

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

C. KAUFMANN.

Witnesses:

C. M. SMITT,
C. F. W. MEYER.