

B. F. CALLEY.
 DESIGN DIE FOR ORNAMENTING.

No. 105,637.

Patented July 26, 1870.

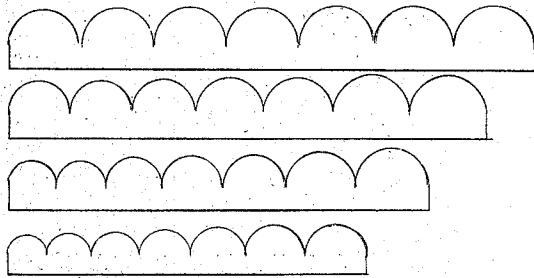


Fig. 4

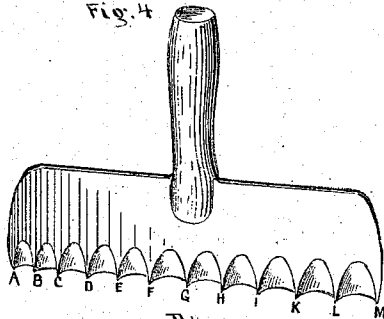


Fig. 1

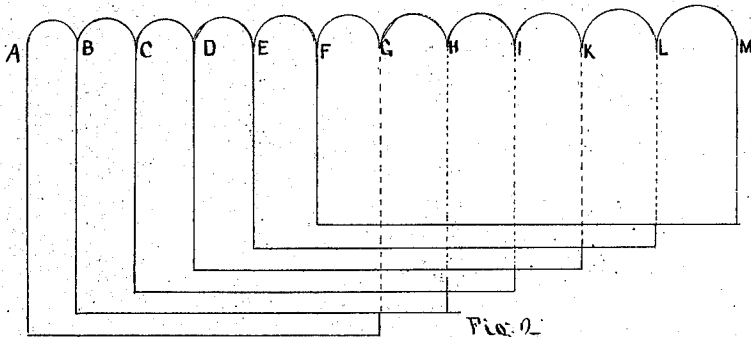
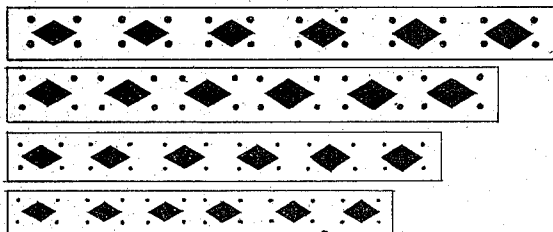


Fig. 2



Witnesses *Frank A. Parker* Fig. 3
Ja. P. Bennett

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BENJAMIN F. CALLEY, OF SAUGUS, MASSACHUSETTS.

Letters Patent No. 105,637, dated July 26, 1870.

IMPROVEMENT IN DESIGN-DIES FOR ORNAMENTING.

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

To all whom it may concern:

I, BENJAMIN F. CALLEY, of Saugus, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Design-Dies to be used for Ornamenting Boots, Shoes, Collars, Ruffles, and other articles upon which dies, punches, stamps, &c., are used for ornamenting, of which the following is a specification

Nature and Object of the Invention.

The nature of my invention consists in an improvement in that class of dies in which the same feature or ornament is repeated many times, and in which it is desirable that a certain space shall be ornamented, and each feature of the ornamentation be complete, that is, the initial and final feature shall be whole and at the right point.

Said improvement consists in grading the series of features or individual ornaments, so that a number of them, say six, for instance, taken consecutively at one portion of the die, would vary in length from the same number taken consecutively on another portion of the die. Thus the same die may be used to ornament articles of different sizes, and still all of the features of the ornament would be perfect, the object being to make a single die or dink do the work of many.

Description of the Accompanying Drawing.

Figure 1 represents one of my dies in perspective.

Figure 2 is a diagram to illustrate the use of my invention, in which the series of curves A B M represents the cutting-edge of the die.

Figure 3 represents a number of strips of fabric of different lengths, upon each of which the same number of ornaments is impressed or cut.

Figure 4 represents the same as fig. 3, except that the feature used as an ornament is different.

General Description.

The die may be made as a hand-die, as represented in fig. 1, or may be made to fit any of the power machines in use for cutting, stamping, punching, printing, &c.

The die itself may be made of a series of any desired ornaments, and may be so constructed as to cut, stamp, perforate, or print, as may be desired.

My invention consists in so constructing the die that the ornament is repeated exactly, except in size.

Thus the scallops from A toward M gradually increase, but not so much as to interfere with the ornamental appearance of the work when applied, as the whole length of the die is not to be used on any one article.

The die represented is especially adapted to the ornamentation of the upper part of a boot or shoe, and is to be used as follows:

If I wish to ornament the quarter of a woman's shoe of the size No. 3, I use that part of the die between A and G, including six scallops. If No. 4, I use that part of the die between B and H, including six scallops, and so on, as the quarter becomes wider, I must use that part of the die in which the scallops become larger, until the quarter becomes so wide that another whole scallop may be used, that is, I may use seven scallops instead of six.

If the quarter is so made as not to contain six scallops, then five of the widest may be used; and then, for still smaller sizes, five narrower scallops may be used, &c.

In figs. 3 and 4, I show different designs, but the characteristic is the same, that is, the features of the design are graded, so that a certain number of them on one part of the die do not occupy the same length of space that the same number do on another part of the die.

My system of ornamentation may be applied to a great variety of purposes, such as embossing, printing, perforating, pinking, &c., on an endless list of articles.

I claim as my invention—

The design-die herein shown and described.

BENJAMIN F. CALLEY.

Witnesses:

JAS. L. CONANT,

FRANK G. PARKER.