

F. SCHOETTLE.

Die for Cutting Hat Boxes.

No. 123,127.

Patented Jan. 30, 1872.

Fig. 1.

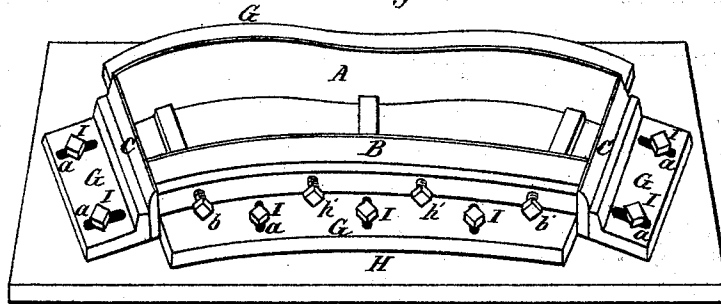


Fig. 2

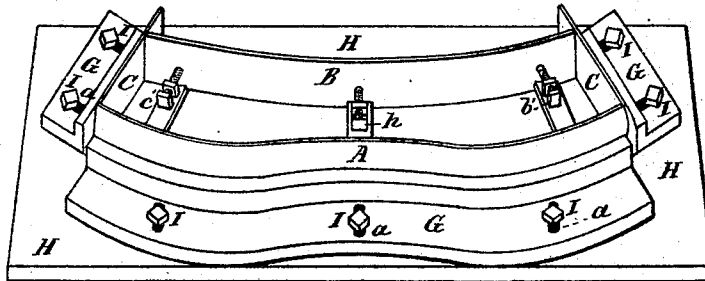


Fig. 3

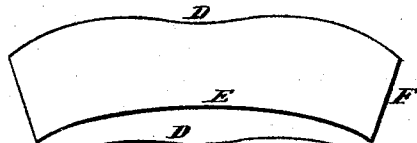


Fig. 4

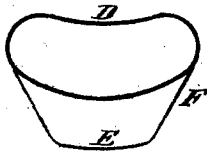


Fig. 6

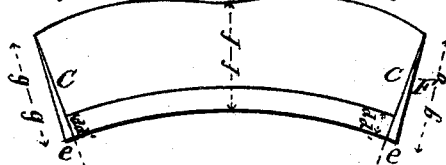
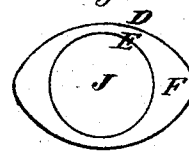


Fig. 5



Witnesses.

C. J. Holmstrom
 John Yeller

Inventor.

Ferdinand Schrettle
by Francis D. Pastinus,
his Atty in fact

UNITED STATES PATENT OFFICE.

FERDINAND SCHOETTLE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN DIES FOR CUTTING HAT-BOXES.

Specification forming part of Letters Patent No. 123,127, dated January 30, 1872.

Specification describing a certain Die for Cutting the Bodies of Silk and other Hat-Boxes, invented by Ferdinand Schoettle, of Philadelphia, in the county of Philadelphia and State of Pennsylvania.

The invention relates to a die composed of adjustable cutters, by means of which hat-boxes of any size and form can be cut from pasteboard or other suitable material.

Figure 1 is a perspective view of a die embodying my invention. Fig. 2 is also a perspective view of the same. Fig. 3 is a view of the side or body of a silk-hat box as cut by the die. Fig. 4 is a perspective view of a silk-hat box, the lid being removed. Fig. 5 is a top view of Fig. 4. Fig. 6 shows the curvature of the bottom, to correspond with hat-bodies of different heights.

The die consists of the four knives or cutters, A B C C', which cut or form from pasteboard or other suitable material, respectively, the top or upper curve D, the bottom curve E, and the height or length of the side F of the box, as shown in Figs. 3, 4, 5, and 6 of the accompanying sheets of drawing. Each knife is suitably attached to an adjustable set-block, G, Figs. 1 and 2, of the head H of a hydraulic or other press. To easily adjust the said blocks they have slotted bolt-openings *a*, through which the set-bolts I pass. The curvature of the upper knife A is fixed, while that of the lower one B is made variable by means of the set or adjusting-screws *b b' c c'* on both sides of the same. The cutter, as shown at Figs. 1 and 2, cut the side or form F, Figs. 3, 4, and 5. When the size of the lid of the hat-box is

to be increased or reduced the knife A must be replaced by one of the proper length and curvature, and the side knives C C' either spread or contracted, which causes a variation in the curve of the bottom knife B. When a hat-box of increased height or length of side F is required—as, for instance, the increase *d d'*, Fig. 6—the knives C C' must be spread and the lower knife B curved to correspond by setting its ends at the ends *e* of the side knives by means of the outer and inner end adjusting-screws *b b' c c'*. The distance *f f* at the center of the die must equal the distance *g g* of the side knives, which is accomplished by means of the outer and inner center adjusting-screws *h h'*. The bottom J of a hat-box, Fig. 5, is cut out by a distinct die. The length of the curve of the bottom knife B is always the same. The variation in its curvature depends upon the height of the hat-box. The upper knife A will always cut for one size box-lid. If the box is intended to contain a hat with an increased width of rim, then another upper cutter must be used, the bottom and side knives remaining the same.

I claim as my invention—

A die for cutting the bodies of hat-boxes, composed of an upper knife, A, a variable curving knife, B, and the adjustable side knives C C', for the purpose shown and described.

In testimony whereof I hereunto sign my name.

FERDINAND SCHOETTLE.

Witnesses:

FRANCIS D. PASTORIUS,
JOHN YILLE.