To all whom it may concern:

Be it known that we, JULIUS M. REIS and BENJAMIN REIS, citizens of the United States, and residents of the city, county, and State of New York, have invented certain new and useful Improvements in Combined Stamping-Out and Marking Dies, of which the following is a specification.

Our invention relates to combined stamping-out and marking dies. The invention is useful in simultaneously stamping-out any desired configuration from stock material and marking one or more portions thereof so as to distinguish said portion or portions from the rest of the configuration or from each other.

The invention is especially useful in stamping out and marking "filler forms" or foundations for embroidery. The use of foundations for embroidery is well known, such for example as the foundations made according to United States Letters Patent Number 1,063,734, granted June 3, 1913, to Gustav Reis.

In connection with the manufacture of foundations of many configurations, such as initials or other species having as a part of their character delicate or relatively weak portions connecting other heavier portions, or having unconnected portions, it has been the custom to have strengthening and connecting spans for more securely holding the forms together; and if these spans were not suitably marked so as to be distinguished from the parts forming the configuration proper that is to be embroidered, the users of the same would frequently, especially in complicated designs, embroider over the strengthening or connecting spans as a part of the design; and to obviate this difficulty, it has been proposed to mark these spans so that the user of the forms can readily distinguish them and not embroider over them, but cut them away at the proper time. One way of marking these spans would be to color them. By the use of our invention, these foundations may be stamped out from stock sheets and the connecting or strengthening spans simultaneously marked in any suitable manner, such as by inking, so that the stamping-up and marking is performed in one operation. It has also been proposed to color different portions of embroidery foundations according to the colors to be used in the embroidery, and the invention is also useful in coloring in different colors the desired portions of the form. It is also useful wherever any stamped-out parts for any use are to have a portion or different portions thereof distinguished from others.

Our invention consists in the novel features and combinations hereinafter shown and described in their preferred form, and the invention is more particularly pointed out in the appended claim.

Further objects and advantages of the invention will more fully appear from the following description taken in connection with the accompanying drawings in which similar characters of reference indicate corresponding parts, and in which—

Figure 1 represents a plan or face view of a die block embodying the preferred form of our invention;

Fig. 2 is a sectional view of the same taken on line II—II of Fig. 1;

Fig. 3 represents a portion of a die block embodying a modification of the invention; and

Fig. 4 is a cross-sectional view of the same taken on line IV—IV of Fig. 3.

Referring to the drawings, Figs. 1 and 2, 1 represents a die block formed of any well-known metal or alloy used for forming dies, and having stamping-out edges 2, 2, 85 outlining a suitable configuration 3 such as the capital script letter "B." These stamping-out edges are formed in a raised or relief portion 4 by grooving the intermediate part of the raised portion 4 so as to form preferably an intermediate arched surface 5 (see Fig. 2).

Wherever it is desired to color any portion of the stamped-out configuration, the corresponding portion of the die is provided with some suitable means for impressing said portion of the configuration to be stamped out of suitable stock material; and in Fig. 1, the parts to be distinguished by some suitable impression in the particular configuration shown, are the connecting or strengthening spans 6, 7 and 8, which form no part of the initial proper.

Referring to Fig. 2, the means utilized in the present embodiment of the invention for coloring these portions consists of suitable coloring or inking surfaces. Any surface may be used that will retain sufficient ink to suitably color the desired portions of the configuration during the stamping-up proc-
ess. In the embodiment of the invention being described, this inking surface is formed by a layer of suitable absorbent material, such as felt, secured to the surface intermediate the stamping-out edges 2, 2 at this portion of the design. The felt is shown as being inserted in the grooved surface of the die by rabbeting or forming an undercutting groove 10 in the raised portion 4 of the die for the purpose of holding the felt in place. This felt may be inked in any suitable manner, and when thus inked and the die used to stamp out configurations, the pad will ink or color the corresponding portion of the configuration and will color a number of such stamped-out configurations without requiring re-inking. It will thus be seen that in one operation the desired configuration can be stamped out of stock material and colored.

Figs. 3 and 4 show a die block embodying a modification of the invention, and in which the stamping-out edges 2', 2' outline a floral configuration intended to be manufactured in colors. For example, if it is desired to color the petals 11 red, the center 12 yellow, and the stem and leaves 13 green, the cutaway or arched surface of the die 11 corresponding to the petals will be provided with impression means, such for example as an inking surface, and preferably an inking pad, for carrying red ink or coloring fluid, while the central portion 12 will carry an inking pad colored with yellow ink or coloring fluid, and the portion 13 corresponding to the stem or leaves will carry a pad having green ink or coloring fluid.

Instead of having to ink these pads periodically by some inking device, the die block may be manufactured as shown in Fig. 4, in which the block is provided with a plurality of wells 19 carrying the different inks or coloring fluids. The ink is supplied from these wells to the inking surfaces through suitable wicks 14 passing through holes 15 drilled through the die block, to the inking pads. Instead of having only an inking pad in the form of a layer of felt, as shown in Fig. 2, shallow chambers 16 may be formed for holding any suitable absorbent material 17, with a layer of felt 9' placed on top of the same. The wells are provided with any suitable means through which ink is inserted and through which they may be cleaned, such for example as tap-screws 18.

It will be apparent to those skilled in the art, after understanding our invention, that modifications and changes may be made therein without departing from the spirit and scope of the invention, and we do not wish to be understood as limiting ourselves other than as indicated in the appended claim.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:

An embroidery form die having cutting edges for cutting out the embroidery forms from a sheet of stock according to the configuration desired, the surface of the die between the cutting edges having arched portions to cause the upper surface of the form to be curved, and said surface being also recessed at one or more points and containing means for applying coloring matter to the embroidery form thereat, to guide the operator in the operation of embroidering over the form.

In testimony whereof, we have signed our names to this specification.

JULIUS M. REIS.
BENJAMIN REIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."