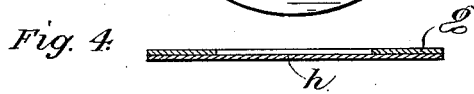
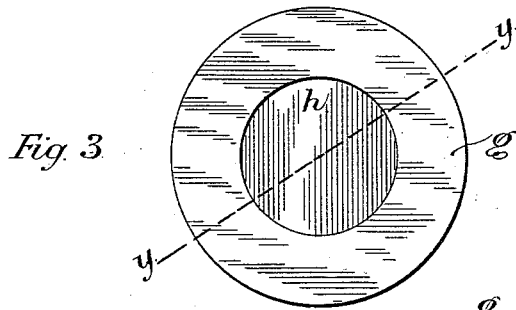
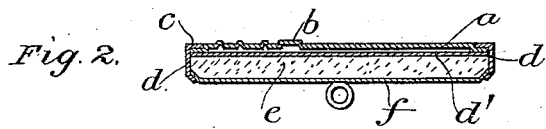
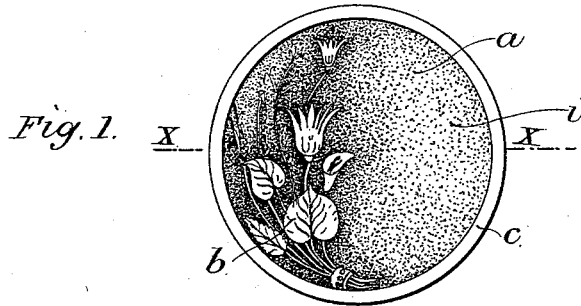


(No Model.)

J. C. SCHMAHL.
IMITATION BUTTON.

No. 379,289.

Patented Mar. 13, 1888.



ATTEST:
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UNITED STATES PATENT OFFICE.

JOHANN CARL SCHMAHL, OF BARMEN, PRUSSIA, GERMANY.

IMITATION BUTTON.

SPECIFICATION forming part of Letters Patent No. 379,289, dated March 13, 1888.

Application filed December 3, 1886. Serial No. 220,569. (No model.)

To all whom it may concern:

Be it known that I, JOHANN CARL SCHMAHL, a subject of the Emperor of Germany, a member of the firm of Schmahl & Schulz, of the city of Barmen, and a resident of Barmen, Rhenish Prussia, Germany, have invented certain new and useful Improvements in the Manufacture of Imitation Buttons, &c., of which the following is a full, clear, and exact specification.

My invention relates to irisating imitation goods made of transparent celluloid, gelatine, transparent horn, and such like transparent materials which are capable of being brought in forms of sheets one thirty-second to one-eighth inch thick.

My invention consists of sheets of transparent material put under a stamping-press to receive an ornamental pattern of any design, and then they are cut or stamped out in round disks, if to be used for buttons, if intended for picture-frames, or in any other shape, according to the article to be made. The pieces thus received from the press are then dyed or painted with paint of suitable color to obtain the ground shading. Certain parts of the pattern are then again freed from the color, and are made transparent again by washing or grinding off the paint, and now, according to the effect desired, some of these transparent spots are again painted at the bottom side in various colors, and others—it may be all or none of them—are left blank and transparent. The disk or frame so far ready is then combined with a metal disk or disks or frame of equal shape, and which may also be of any suitable color polished bright or left dim. These two pieces form together the real upper part of a button, of a brooch, &c., and they are fixed together with the other parts of the object for which they are intended in any convenient manner.

Articles thus made—as, for instance, buttons, brooches, picture-frames, &c.—irisate most beautifully in various colors, like mother-of-pearl and certain sorts of glass; but they have the advantage of being much cheaper and are not apt to break like these.

In the drawings, Figure 1 represents a plan view of a button with an ornamented face part transparent and part opaque. Fig. 2 repre-

sents a vertical section taken on line *xx* of Fig. 1. Fig. 3 represents a plan of two highly-polished disks of bright color. Fig. 4 represents a section of Fig. 3, taken on line *yy*.

Similar letters refer to similar parts throughout the drawings.

a represents the transparent disk, having the ornamentation *b* raised in relief from the said disk *a*. The edge of this transparent disk *a* is provided with an annular rim adapted to pass under a corresponding projecting rim, *c*, of the frame *d*. Beneath the disk *a* is arranged the disk *d'*, of any suitable material having a bright-colored polish; or it may be otherwise beautified. The said disk *d'* is backed up by a wad, *e*, which may be made of any suitable material, held in position by the base-plate *f*, carrying the shank.

Instead of using the single disk *d'* beneath the ornamented and partly-transparent disk *a*, I may use the disks *g h*, the former of which is provided with a central perforation, and the remaining body thereof may be of a red color highly polished, and the latter of a greenish color, likewise polished. When these two disks are arranged as stated above, the ornamentation *b*, by their transparency, will give a very beautiful effect when the ground portion *i* of the disk *a* remains opaque.

I do not wish to confine myself to this exact manner of beautifying a button, &c., as I may color the ornamentation direct, having the ground portion *i* transparent.

I am aware that buttons made of thin material having various forms cut through it and backed by tin-foil have heretofore been made; but I am not aware that buttons were ever before made and beautified in the manner herein shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The disk *a*, made of celluloid, horn, or gelatine having a design stamped thereon and painted, as and for the purpose set forth, in combination with the disk *g*, colored, polished, or left dim on one side and provided with a central opening, and the disk *d'*, colored or polished on one side, substantially as and for the purpose set forth.

2. As an improved article of manufacture,

a button or other article composed of a disk or
sheet of transparent celluloid, gelatine, &c.,
having raised configuration stamped or pressed
thereon, and held within the frame of a button
5 or other article, the brightened or colored
disks or sheets arranged beneath said trans-
parent disk, the whole provided with a suit-
able backing and properly inclosed within the
frame of a button or other article, substantially
10 as shown and described.

In testimony that I claim the foregoing I
have hereunto set my hand this 22d day of
October, 1886.

JOHANN CARL SCHMAHL.

Witnesses:

ADOLF LANGENOHL,
AUGUST SCHMITZ.