

H. FLOCK.  
METHOD OF PRODUCING PLACARDS WITH SUNK CHARACTERS OR IMPRINTS.  
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1,061,059.

Patented May 6, 1913.

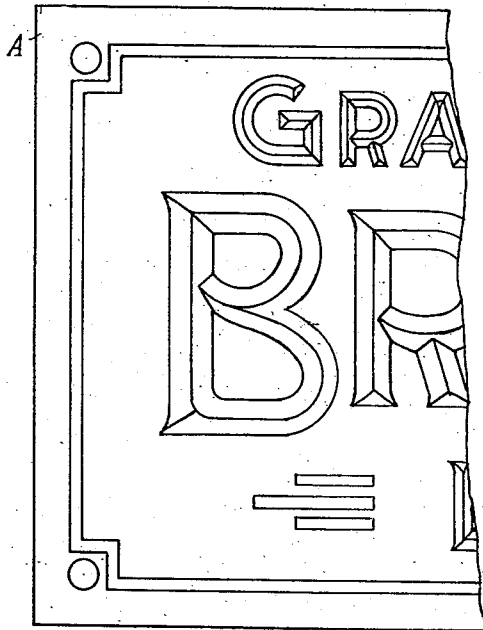


FIG. 1

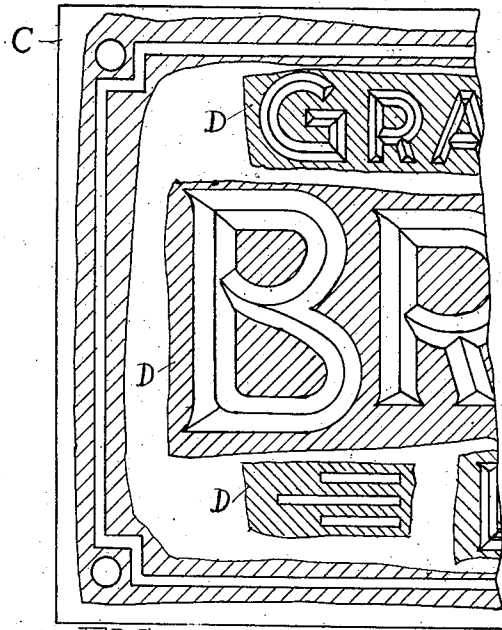


FIG. 3.

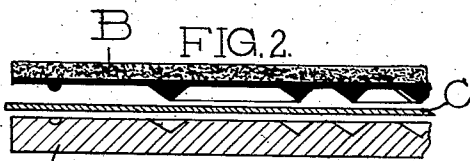


FIG. 2.

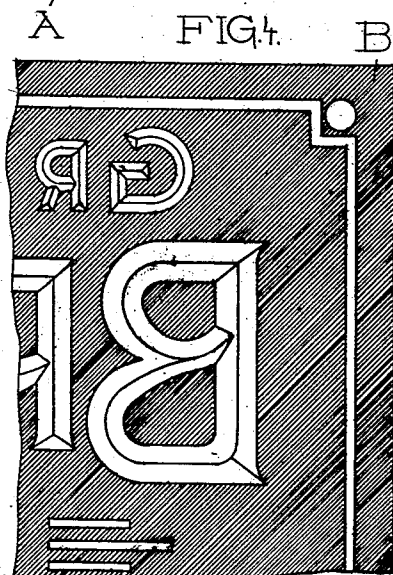
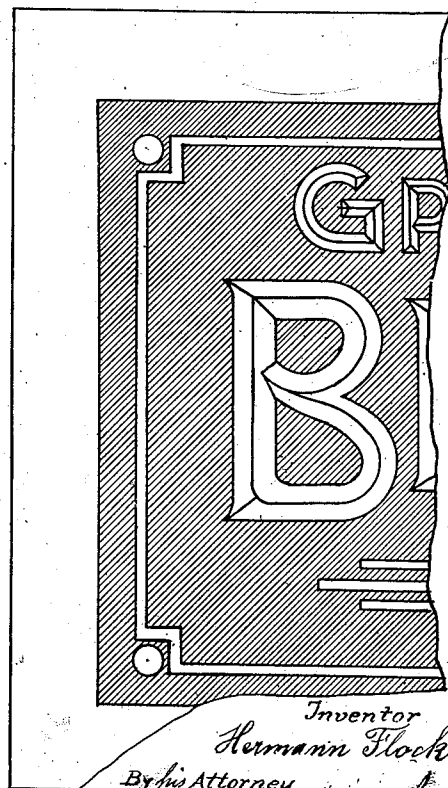


FIG. 4.

FIG. 5.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HERMANN FLOCK, OF LEIPZIG, GERMANY.

METHOD OF PRODUCING PLACARDS WITH SUNK CHARACTERS OR IMPRINTS.

1,061,059.

Specification of Letters Patent.

Patented May 6, 1913.

Application filed August 19, 1911. Serial No. 644,953.

*To all whom it may concern:*

Be it known that I, HERMANN FLOCK, a citizen of the Empire of Germany, and a resident of Leipzig, in the Kingdom of Saxony, Germany, have invented certain new and useful Improvements in Methods of Producing Placards with Sunk Characters or Imprints, of which the following is a specification.

10 This invention has reference to a novel method of producing placards with sunk characters or imprints.

15 It is the special object of my invention to employ a new method by means of which a marring or detracting from the luster of the impressed placard is avoided.

20 For the purpose of producing placards on pasteboard and similar materials with sunk characters engraved metal plates were used heretofore as impression plates on which the type or pictorial designs were produced in reversed and raised form. As a base plate, a matrix was prepared from the impression plate for the production of which a hardening composition was used. This method was defective in that the impression plate of metal impaired and marred the luster of the impression composition where the imprints were made and reduced the reflecting effect of such placards with sunk characters if said composition was not highly polished which incurred considerable expense.

35 It is the special purpose of this invention to overcome the described deficiencies and produce placards with sunk characters which possess a highly reflecting effect.

40 For the purpose of making the invention entirely clear, reference is made to the accompanying drawing, in which:

45 Figure 1 represents in top plan view a deeply engraved metal plate. Fig. 2 is a cross section of the entire device. Fig. 3 is a top plan view of part of a placard with a layer of metal foil or colored paper after the placard has been embossed. Fig. 4 illustrates in bottom plan view an imprinted transparent cover, and Fig. 5 shows a portion of the finished placard with the transparent cover pasted thereon.

50 Similar characters of reference denote like parts in all the figures.

55 In accordance with the present invention a base plate for the impression composition is used consisting of a deep sunk metal plate A with the characters thereon in positive form. The type and pictorial designs are

accordingly produced on this plate exactly in the same sunk form as they shall appear on the finished placard.

As a counterpart or impression plate a raised or male plate B is used prepared from the base plate which has the sunk engraved positive characters, said impression plate being preferably made from a hardening composition such as for instance matrix powder. Such hardening powder consists essentially of dextrin and colophony powder. Between the deeply engraved metal plate A and the impression plate B, the placard is printed. If this raised or male form is now covered with paper it may be used as an impression plate for highly polished material such as metal, metal foil and the like without marring or detracting from the luster of the impressed placard. As such surface portion of the raised or male form does not impair the high polish of metal during the process of imprinting the placards produced by means of such metal foil show a high reflecting effect.

For the purpose of obtaining colored or metallic effects on the placards, pieces of colored paper or metal foil D are glued to these portions of said placards where imprints are to be made.

In accordance with this method placards with sunk characters may be produced with a metallic layer or a layer of metallic or colored paper. For increasing the effect of such placards the surface of the deeply engraved metal form is covered with a color by rolling which then is printed upon a transparent sheet or film of celluloid, gelatin or the like. The transparent sheet or film printed as described covers the placard with said printed portion so that only the sunk characters are prominently visible. Such a covering of the placard protects at the same time the impression against damage or atmospheric influences. Thus if the printed celluloid plate shown in bottom or rear view in Fig. 4, is secured to the imprinted placard shown in Fig. 3, then the finished article presents the appearance shown in Fig. 5.

I claim as my invention:—

1. The process of producing placards with sunk imprints consisting in preparing the base plate with sunk characters thereon in positive form, producing therefrom a male plate with raised characters, gluing pieces of fine sheeting of a striking color upon those

portions of the placard to be imprinted, placing the placard thus prepared between the base plate and the male plate, producing the imprint, applying color to the base plate, printing therefrom on a transparent sheet, and securing said transparent sheet as a top cover to the placard so that its transparent portions coincide with the imprints on said placard.

10 2. The process of producing placards with sunk imprints consisting in preparing the base plate with sunk characters thereon in positive form, producing therefrom a male plate with raised characters, gluing pieces  
15 of metal foil upon those portions of the

placard to be imprinted, placing the placard thus prepared between the base plate and the male plate, producing the imprint, applying color to the base plate, printing therefrom on a transparent sheet, and securing said transparent sheet as a top cover to the placard so that its transparent portions coincide with the imprints on said placard.

Signed at Leipzig, Germany, this 3d day of August 1911.

HERMANN FLOCK.

Witnesses:

RUDOLPH ERICKE,  
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