

No. 747,053.

PATENTED DEC. 15, 1903.

H. EHRLICH.
FASTENING SHANKS TO IVORY BUTTONS.

APPLICATION FILED MAR. 30, 1903.

NO MODEL.

Fig. 2.

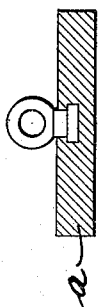
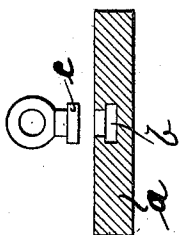


Fig. 1.



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UNITED STATES PATENT OFFICE.

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FASTENING SHANKS TO IVORY BUTTONS.

SPECIFICATION forming part of Letters Patent No. 747,053, dated December 15, 1903.

Application filed March 30, 1903. Serial No. 150,319. (No model.)

To all whom it may concern:

Be it known that I, HERMANN EHRLICH, a subject of the German Emperor, and a resident of Altenburg, Saxe-Altenburg, Germany, have invented Improvements in Methods of Fastening Shanks to Ivory Buttons, of which the following is a specification.

The present invention consists in a method of securing metallic shanks to the plates of buttons made of ivory, nut-shell, bone, or similar substances.

Heretofore the parts of buttons have been fastened together by some kind of cement, and the fastening has never been satisfactory. By the new method the end of the metallic shank is given the form of a head in diameter somewhat larger than the shank, which is inserted in a correspondingly-undercut depression of the nut-shell plate, and before the insertion of the metal shank the material of the button-plate is softened by heat, preferably by the application of hot water, whereupon the shank can be forced into its seat and after desiccation will be firmly kept in position in the button.

In the accompanying drawings, Figure 1 shows a button-plate in cross-section and separately the metallic shank with the ordinary eye in elevation. Fig. 2 represents the two parts of the button as shown in Fig. 1 united.

The button-plate *a*, made of ivory, bone, nut-shell, hard rubber, or similar substances,

is provided with an undercut depression *b*, as shown in Fig. 1, having an offset for the end of the shank, which is provided with a head *c*; but the plate *a* may be turned out conically for a conical end of the shank. When the plates are ready and the depression is cut on the lathe or otherwise, preferably being of the exact size or rather somewhat smaller than the shank end, the button-plates are soaked for several hours in hot water, which will be maintained at a temperature of about 200° Fahrenheit. By this treatment the material of the button is sufficiently softened to allow the shanks to be pressed into place. Then the buttons are allowed to dry, and a current of hot air may be employed to expedite the process of drying.

I claim—

A process of manufacturing buttons of ivory, nut-shell and other substances capable of being softened by hot liquids, which consists of submerging button-plates provided with undercut depressions in hot water, by inserting the suitably-shaped metal shanks into the depressions while being soft, and finally drying the buttons, substantially as described.

In testimony whereof I affix my signature.

HERMANN EHRLICH.

In presence of—

HUGO GERTT,
F. HIPHAM.