

P. D. AUB.  
Playing-Cards.

No. 164,508.

Patented June 15, 1875.

FIG. 1.

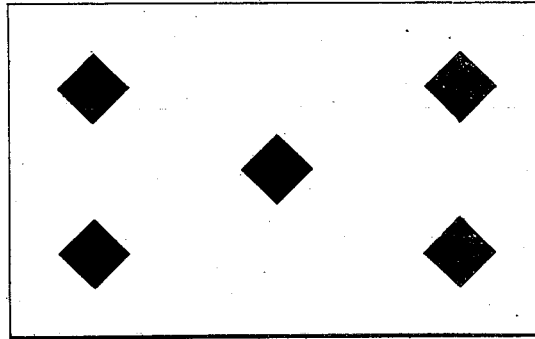
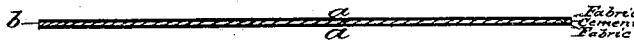


FIG. II.



WITNESSES:

*W. S. Coombs*  
*W. H. Torrie*

INVENTOR:

*Phillip D. Aub.*  
*By James L. Norris,*  
*Atty.*

# UNITED STATES PATENT OFFICE.

PHILLIP D. AUB, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS RIGHT  
TO ASA HEINEMANN, OF SAME PLACE.

## IMPROVEMENT IN PLAYING-CARDS.

Specification forming part of Letters Patent No. 164,508, dated June 15, 1875; application filed  
November 30, 1874.

*To all whom it may concern:*

Be it known that I, PHILLIP D. AUB, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Playing-Cards, of which the following is a specification:

My invention relates to certain new and useful improvements in the manufacture of playing-cards.

In the drawings, Figure 1 represents a face view of a playing-card constructed according to my invention. Fig. 2 is a longitudinal section of the same.

Playing-cards, as heretofore constructed, have been of limited durability, being readily soiled or injured by the action of water, and easily broken or defaced by the slightest bending or folding. The object of my invention is to obviate these defects, and produce a card of the greatest durability, that will withstand the action of water, so that it may be washed as often as soiled, and possessing such an amount of pliability and strength that it may be bent and folded in all directions, and afterward straightened out without injury to the same.

My invention consists in a playing-card, constructed of two or more layers of muslin, linen, or other similar fabric, combined and united together by means of glue, starch, and spermaceti, or such other suitable sizing material, having the symbols or characters printed or painted thereon and colored, to give the finished cards any tint or shade that may be convenient, such, for instance, as indigo, carmine, &c.

The layers of muslin or other similar fabric *a a*—two or more layers in number—may be combined at one operation with the compound *b*, or they may be sized or stiffened first, and then united and combined with the spermaceti, and the sheets may be made of any size, and the cards afterward cut from the same; or the layers or pieces of muslin may be first cut to the size required for the cards, and then combined with the composition, as may be found more convenient.

The muslin may be of any degree of fineness, and the layers forming the back of the card, or the intermediate layers, may be made of a coarse or cheap variety of muslin, and the layer forming the face of the card may be made of a finer and more expensive variety.

The designs may be printed or painted on the cards at any stage of the manufacture, either on the muslin previous to the first treatment, after the stiffening or sizing, before enameling, or after the enameling, as may be found most convenient or satisfactory, or they may be embossed or stamped upon the cards, if desirable.

The proportions of the several ingredients for combining with the layers of muslin may be varied, being dependent upon the nature of the textile fabric used, and the finished article to be produced—a fine material requiring a different proportion of ingredients from a coarse fabric.

The following have been found to answer well with muslin of suitable quality for the manufacture of playing-cards for all ordinary uses, viz.: Glue or starch; coloring matter; spermaceti.

These ingredients are thoroughly incorporated, and applied to the muslin in a suitable manner.

The layers of muslin are then run between rollers, and subjected to powerful pressure, by means of which the fibers are thoroughly incorporated with the compound, and firmly united together, and at the same time a high finish or enamel is imparted to the surface of the card.

Instead, however, of applying the compound at once to the pieces of muslin, it (the latter) may be first sized and colored, and then enameled by means of the spermaceti; or it may be made in three distinct stages, viz: First, sized or stiffened; then colored or tinted; and, finally, enameled.

What I claim is—

As a new article of manufacture, a playing-card, constructed of two or more layers of muslin, or other textile fabric, combined and united together by means of glue, starch, spermaceti, or such other suitable sizing material, and having the symbols or characters printed or painted thereon, substantially as described, for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

PHILLIP D. AUB.

Witnesses:

JAMES L. NORRIS,  
JOS. L. COOMBS.