No. 894,582. PATENTED JULY 28, 1908.

L. BORSUM.

SLIDE FOR PHOTOGRAPHIC PLATE HOLDERS.

APPLICATION FILED AUG. 9, 1907.

FIG: 1

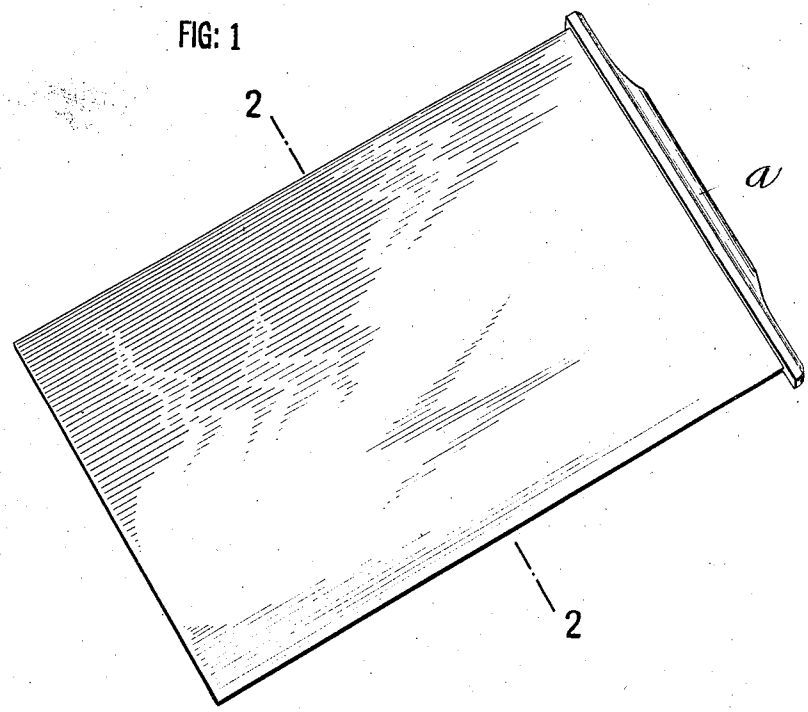


FIG: 2

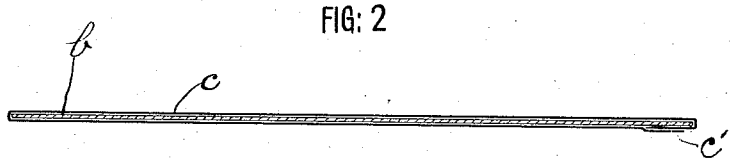
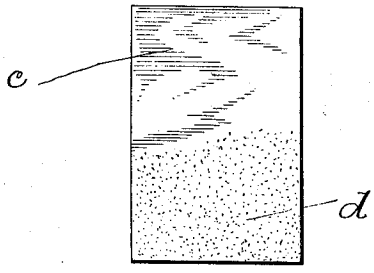


FIG: 3



Witnesses:
Max B. A. Doring
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UNITED STATES PATENT OFFICE.

LOUIS BORSUM, OF PLAINFIELD, NEW JERSEY.

SLIDE FOR PHOTOGRAPHIC-PLATE HOLDERS.

No. 894,582. Specification of Letters Patent. Patented July 28, 1908.

Application filed August 9, 1907. Serial No. 387,765.

To all whom it may concern:

Be it known that I, LOUIS BORSUM, a citizen of the United States of America, residing at Plainfield, county of Union, State of New Jersey, have invented an Improved Slide for Photographic - Plate Holders, of which the following is a specification.

Plate holder slides have heretofore been made of metal having a liquid coating, such as enamel, varnish or paint, applied thereto but in practice they have been unsatisfactory for the reason that bending of the slide will cause the coating to crack off or slight abrasion will expose the surface of the metal. Moisture also tends to cause the coating to peel off. Notwithstanding the desirability of metal slides on account of their thinness and strength they have met with a very limited success in practical use. As is well understood, a very slight exposure of the bright surface of metal will fog the sensitive plates.

To produce a desirable, satisfactory plate holder slide of a thickness not noticeably greater, if greater at all, than the metal slides mentioned, I place around a thin metal plate of appropriate size a thin fabric, such as paper or woven cloth, or silk, cotton or linen, and intimately unite the fabric to the plate by a suitable adhesive. The adhesive should preferably be such as will not be affected by moisture or by solutions ordinarily employed in the dark room and which not infrequently come in contact with the plate holder slides. If the fabric is of the proper black color and sufficiently opaque to entirely cover the surface of the metal, it need not be specially treated after its application to the metal plate. I, however, by preference coat it with a water proofing solution such as black shellac, varnish or other appropriate material which, when it has dried, may be rubbed down to produce the desired dead surface. The fabric, whether paper or woven cloth, and the varnish or liquid that may be applied to it exteriorly should be photographically neutral with respect to the sensitized plate. Experience has demonstrated that such a plate holder slide is highly efficient. It may be more or less elastic according to the metal employed and relatively very thin and of considerable strength. Bending of the slide will not cause detachment of the fabric nor of the superficial varnish or coating, when used; nor will drops of water or of photographic solutions injuriously affect it. Such a slide is of very cheap construction and possesses all the desired requirements of a plate holder slide.

Aluminum, on account of its lightness, has been used for plate holder slides but its use is open to the objections above suggested which, however, are not present in a slide constructed according to this invention. The coating of fabric well cemented to the metal acts to reinforce the metal with respect to its rigidity and elasticity so that I have found in practice that the slides may be made quite as thin as it is feasible to make metal slides having applied directly to them varnish coatings or enamels.

In the accompanying drawing: Figure 1 is a perspective plan view of a plate holder slide constructed in accordance with my invention; Fig. 2, an enlarged section on the line 2, 2, of Fig. 1; and Fig. 3, a reduced face-view indicating both the fabric and the varnish or enamel-like coating.

a is the ordinary head or end piece of the slide; *b* the metal plate core; *c* the paper or woven fabric within which the metal plate is disposed.

In Fig. 3, *d* indicates the superficial varnish coating, and *c* the fabric. In practice the varnish coating would be applied over the entire surface of both sides of the slide.

In Fig. 2, *c'* indicates a lap-joint of the fabric which is exaggerated for the purpose of illustration. The joint would of course be substantially flat with the surface of the slide.

I claim:

1. A photographic plate-holder slide comprising a thin metal sheet and fabric enveloping the sheet and intimately united therewith by adhesive material.

2. A photographic plate-holder slide comprising a thin sheet, fabric enveloping the sheet and intimately united therewith by adhesive material and a dried coating of varnish-like material applied to the exterior of the fabric.

In testimony whereof, I have hereunto subscribed my name.

LOUIS BORSUM.

Witnesses:

S. A. HASTIE,

L. F. BROWNING.