

(Specimens.)

D. MACDONALD.

SIGN PLATE.

No. 396,704.

Patented Jan. 22, 1889.

Fig. 1.

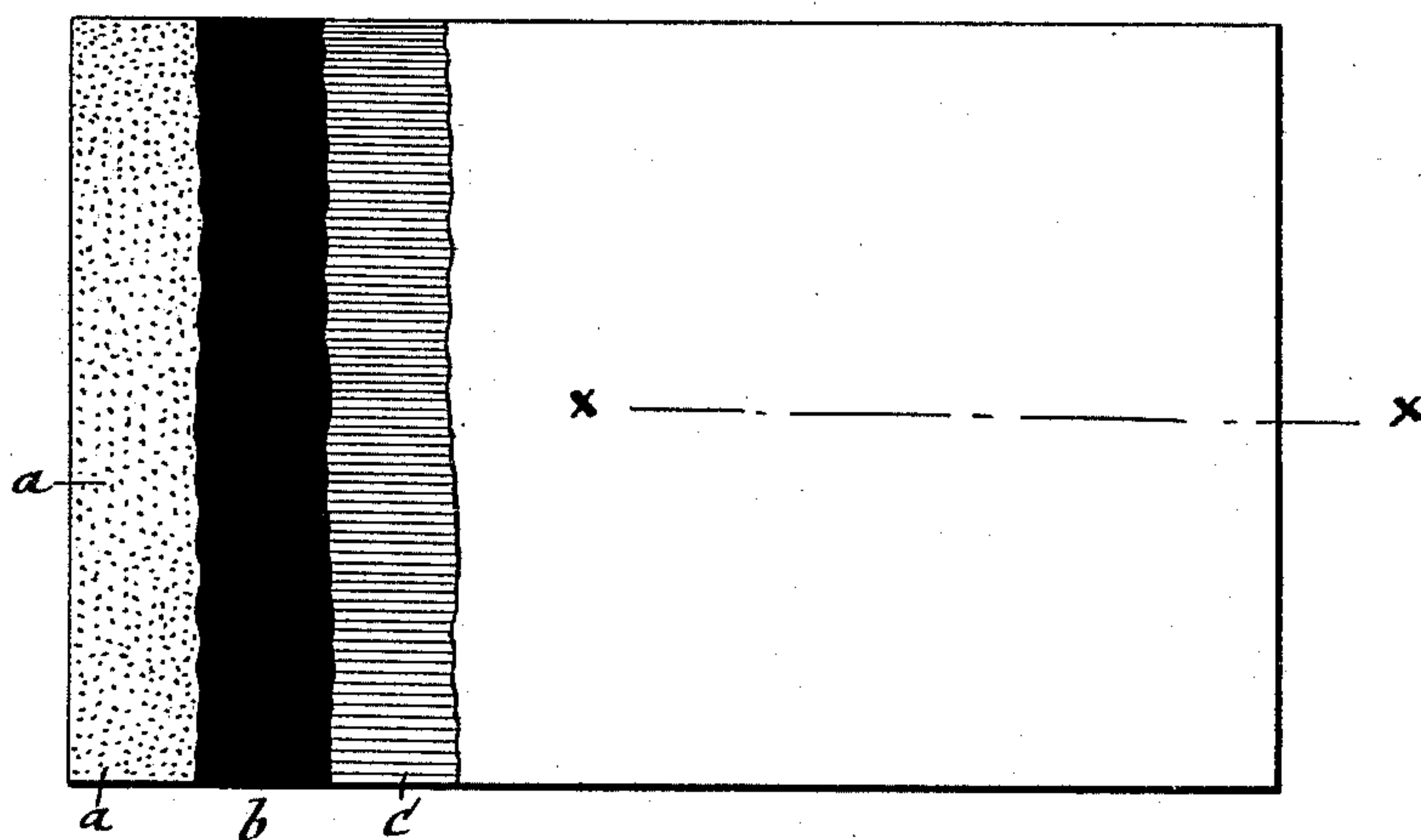


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

DAVID MACDONALD, OF TORONTO, ONTARIO, CANADA, ASSIGNOR TO WILLIAM STONE, OF SAME PLACE.

## SIGN-PLATE.

SPECIFICATION forming part of Letters Patent No. 396,704, dated January 22, 1889.

Application filed April 11, 1888. Serial No. 270,261. (Specimens.)

*To all whom it may concern:*

Be it known that I, DAVID MACDONALD, of Toronto, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Sign-Plates, of which the following is a specification.

This invention relates to an improved sign-plate in which a metal foundation plate or backing is combined by an intermediate layer of cement with a face layer of paper, said paper being sized and varnished, said sign-plate being specially adapted for lithographic work, such as show-cards, advertising-pictures, and the like; and the invention consists of a sign-plate composed of a metal foundation plate or backing having a porous or roughened surface, an intermediate layer of cement, and a face layer of sized and varnished paper united with said foundation-plate by pressure.

In the accompanying drawings, Figure 1 represents a front view of my improved sign-plate with the parts of the different layers successively broken away; and Fig. 2 is a vertical transverse section on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, *a* represents a metal foundation plate or backing, the surface of which is made porous by treating it with a suitable acid. On this porous surface a layer, *b*, of cement, consisting, preferably, of a mixture of fine varnish—such as used by coach-builders—and zinc-white, is uniformly spread, and then a layer, *c*, of paper printed in suitable

colors placed thereon and embodied therewith by strong pressure in a suitable press. To protect the surface of the face layer, it is sized, and finally coated with varnish. By the pressure exerted on the different layers the paper is thoroughly amalgamated by the intermediate layer of cement with the porous or prepared surface of the plate, so that it is impossible to peel it off. The sizing and varnishing protects the surface, so that it can be handled, shipped, and exposed to moisture in the same manner as the metal sign-plates on which the pictures have been painted or otherwise fixed.

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

1. A sign-plate composed of a metal foundation plate or backing having a porous or roughened surface, an intermediate layer of cement, and a face layer of paper united with the foundation-plate by pressure, substantially as set forth.

2. A sign-plate composed of a metal foundation plate or backing having a porous or roughened surface, an intermediate layer of cement, and a face layer of sized and varnished paper united with the foundation-plate by pressure, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

DAVID MACDONALD.

Witnesses:

ANDREW ALLAN,  
W. A. MITCHELL.