

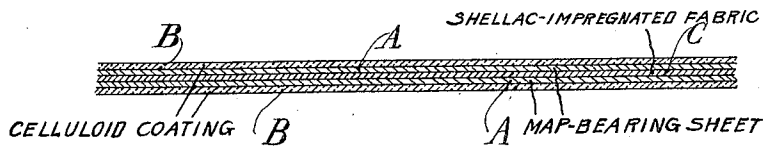
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A. D. COLLINS

METHOD OF PRODUCING MAPS, CHARTS, AND THE LIKE

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Inventor

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UNITED STATES PATENT OFFICE.

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METHOD OF PRODUCING MAPS, CHARTS, AND THE LIKE.

Application filed January 3, 1924. Serial No. 684,186.

To all whom it may concern:

Be it known that I, ATHOL DANIEL COLLINS, a subject of the King of Great Britain, residing at London, in the county of Surrey, England, have invented certain new and useful Improvements in a Method of Producing Maps, Charts, and the like, of which the following is a specification.

Charts, maps and the like in the production or mounting of which paste, glue, or any other adhesive containing water has been employed are subject to the defect that such adhesives are naturally more or less hygroscopic, and that it is impracticable effectually to get rid of moisture, whether residual or absorbed, since the adhesive is enclosed between more or less impervious surfaces.

A chart, map, or the like of this kind is consequently liable to become impaired upon exposure to weather or meteorological changes and such damage is particularly likely to occur in the case of maritime charts, automobile road maps and the like.

Now this invention has for object to prevent the deterioration of maps or charts (all hereinafter designated maps), by the use as an adhesive of shellac or a solution of shellac in a spirituous or volatile medium, treated as hereinafter described, thus entirely excluding aqueous vapour from the structure of the map.

According to the preferred procedure the paper or the like on which the map is drawn or printed is coated with celluloid in the known manner. Any desired fabric or like reinforcement which has been coated or saturated with shellac or shellac solution is then placed on, or between, the sheet or sheets bearing the map or maps and the several layers are then caused to stick together by

the application of heat, as by passage through a roll-press heated to about 120° F. The advantages resulting from the conjoint use of shellac and celluloid treated as and for the purpose set forth will easily be realized by anyone accustomed to the preparation or use of maps, or in a position to observe the defects that usually develop in them from the presence of moisture.

The accompanying drawing illustrates in a cross-sectional view the disposition of the component layers of a map embodying the present invention. Referring to the drawing, the sheets A constituting the map proper, furnished with protective surface coatings B of celluloid or the like, are cemented together by a layer of shellac adhesive C preferably comprising or consisting of a reinforcing fabric saturated or impregnated with a preparation of heated and dissolved shellac resembling shellac varnish.

I claim:

The herein described method of producing a map, chart or the like which consists in drawing or printing a representation on a sheet, coating the representation-bearing face of said sheet with celluloid, applying to the other face of said sheet a shellac-impregnated reinforcement, and securing adhesion between said sheet and reinforcement by the application of pressure and heat at a temperature of substantially 120° F., substantially as described.

Signed at Wimbledon, in the county of Surrey, England, this fourth day of September, 1923.

ATHOL DANIEL COLLINS.

Witnesses:

C. M. STOKES,
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