

UNITED STATES PATENT OFFICE.

WM. PAINTER, OF BALTIMORE, ASSIGNOR TO HIMSELF AND CHARLES PAINTER, OF OWING'S MILLS, MARYLAND.

IMPROVED MATERIAL FOR MAKING BOXES, &c.

Specification forming part of Letters Patent No. 45,950, dated January 17, 1865.

To all whom it may concern:

Be it known that I, WILLIAM PAINTER, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and Improved Asphaltic Board for Making Boxes, Packages, and other Articles; and I do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in producing an economical substitute for tin in the manufacture of boxes, packages, and other articles by imparting to straw-board, paste-board, and other similar fibrous material the properties of hardness, stiffness, solidity, elasticity, and imperviousness to oil or water by saturating the same with asphaltum or pitch made from coal-tar.

To enable others skilled in the art to make and use my invention, I will proceed to describe its preparation and use.

The substance best adapted to the purpose is the straw-board of commerce, the sheets of which are dipped into the melted pitch or asphaltum and allowed to remain a sufficient time for them to become fully saturated, which requires from eight to ten minutes, according to the thickness of the sheets. They are then passed between heated rollers, which remove the superfluous pitch from the surface, leaving it smooth and finished. When cold they become hard, stiff, solid, elastic, and impervious to the action of oil or water, and otherwise qualified for use as an economical and efficient substitute for tin (possessing most of its requisite qualities) for making boxes and packages for blacking, tobacco, paints, axle-grease, concentrated lye, and other articles.

In making boxes for blacking the top and bottom are cut in proper form by dies, and each inclosed by a band or rim of tin having a swage or groove formed for receiving it.

Boxes of cylindrical form are made by cutting the asphaltic board into strips with beveled edges and bending the same into shape while heated and pliable, the edges being secured by glue or cement. This forms the body of the box. The bottom is confined thereto by glue or cement, or by a band of tin or other metal. The top is inclosed by a metallic band, as described, in boxes for blacking. The joint between the bottom and body is made tight, when necessary, by glue or cement.

Boxes made of this material and in the manner described are well adapted for containing semi-fluid substance.

I am aware that felt and cloth have been saturated with coal-tar for roofing purposes; but I claim the distinctive features produced by saturating sheets of straw-board or paste-board with asphaltum or pitch made from coal-tar, which becomes hard when cold, adapting the material to the purposes described.

What I claim as my invention, and desire to secure by Letters Patent, is—

As a new article of manufacture, the asphaltic board, made substantially as described, for the manufacture of boxes, packages, and other articles.

WILLIAM PAINTER.

Witnesses:

WM. P. HOOPES,
D. A. HOOPES.