

UNITED STATES PATENT OFFICE.

JUDD M. COBB, OF BELOIT, WISCONSIN.

IMPROVEMENT IN BUILDING PAPER OR BOARD.

Specification forming part of Letters Patent No. **195,483**, dated September 25, 1877; application filed August 28, 1876.

To all whom it may concern:

Be it known that I, JUDD M. COBB, of Beloit, in the county of Rock and State of Wisconsin, have invented a new and useful Improvement in Building Paper or Board, which is fully described in the following specification:

My invention relates to straw board or other like material adapted for use as a substitute for laths and plaster upon the walls and ceilings of building, or for siding upon the outside of buildings.

The invention is intended to produce an odorless building-board especially suitable for use as a substitute for laths and plaster in the interior of dwellings, and is an improvement upon the invention described in Letters Patent No. 111,611, granted to me February 7, 1871.

In carrying out my present invention I employ only deodorized mineral or coal oil. I make a mixture of rosin with this oil in the proportion of forty pounds of oil to one hundred pounds of rosin, or thereabout. As the straw board leaves the driers of the paper-machine without any additional treatment, it is passed through a vat filled with the mixture of rosin and oil above described in a warm condition. Both sides of the board are thus coated with the mixture, and, in fact, the board is nearly saturated therewith. It is then passed through suitable scrapers, for the purpose of removing the surplus portion of the coating, and is conducted thence to calender-rolls, either hot or cold, through which it is passed. These calender-rolls press the board, thereby forcing the oil and rosin coating into the substance of the board on both sides thereof, and giving it a hard smooth surface on each side.

In the process set forth in my patent mentioned above a different appearance and degree of finish are given to the two sides of the board; but by the process herein described both sides of the board present the same ap-

pearance and have the same degree of finish. On each side there will be a smooth glazed coating, and the board thus prepared may be used either side out with the same effect and appearance.

I prefer to use rosin, as it is a cheap material; but it is evident that any other suitable resinous material may be substituted therefor to make, with the oil, a water-proof coating to be applied as herein described.

The product thus obtained is entirely inodorous, and is also water-proof. It is especially adapted for use in the interior of dwellings as a substitute for laths and plaster, and the mineral oil is so cheap that this building-board will cost but little more than ordinary building-board, and there is, therefore, no obstacle to its substitution for the latter in all places where it is employed.

The board thus prepared not only presents the same smooth finished appearance on both sides, as described above, but also differs from the board made under my former patent herein mentioned in another important particular. The old board will become dry in a very short time, and will crack when bent; but this new board remains soft and flexible for a long time, so that it is not injured for use by long storage.

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

As a new article of manufacture, an inodorous water-proof building-board consisting of straw board covered on both sides with a mixture of rosin and deodorized mineral oil, as described, and calendered so that both sides of the board will present the same appearance and have the same smooth hard finish, while at the same time the board will be soft and pliable, substantially as set forth.

JUDD M. COBB.

Witnesses:

JOHN GEDDES,
GEO. A. CHENY.