

# UNITED STATES PATENT OFFICE.

PHILIP CAREY, OF CINCINNATI, OHIO.

## PULP-BOARD FOR ROOFING PURPOSES.

SPECIFICATION forming part of Letters Patent No. 300,946, dated June 24, 1884.

Application filed February 4, 1884. (Specimens.)

*To all whom it may concern:*

Be it known that I, PHILIP CAREY, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Pulp-Board for Roofing Purposes, of which the following specification is a full, clear, and exact description.

My invention has for its object the production of pulp-board chiefly designed for roofing purposes, and has for its object the improvement of this class of boards by rendering the same more durable and less liable to be broken by any pressure that might be brought to bear on them, and at the same time making them practically fire-proof.

To this end the novelty of my invention consists in a pulp-board composed of wood pulp, asbestos fiber, or any other mineral fiber, any suitable clay mixed together while in a pulp, then pressed or rolled into sheets or boards, dried, and afterward coated or saturated with asbestos, asphaltum, or any other fire or water proof paint, as will be herewith set forth and specifically claimed.

I am aware that boards for roofing have been before made of wood pulp and other substances; but the objection to such boards is that they are very brittle and become easily split or broken.

I am also aware that boards of wood pulp and other substances have been, while in a pulp state, saturated with oil before being dried; but such boards were also brittle and lacked the element of being fire-proof.

I prefer to construct my boards of a pulp made up of wood fiber, asbestos fiber, or any other mineral fiber, and suitable clay, in the proportion of sixth-tenths, three-tenths, and one-tenth, respectively, which pulp is thoroughly mixed together, and is then formed into sheets or boards by rolls or in a press, and is then dried. When thoroughly dried, and either before or after the boards are applied to roofing or other purposes, I coat or saturate them with asbestos, asphaltum, or any other fire or water proof paint. By this combination of ingredients, the boards will be pliant and will not readily split or break, and at the same time will be practically fire-proof.

I do not limit myself to the proportion of ingredients named, as they may be varied; but I have stated the proportion I consider best; and,

Having thus fully described my invention, I claim—

As a new article of manufacture, a pulp-board composed of wood pulp, asbestos, or any other mineral fiber, and any suitable clay, mixed together while in a pulp state, then pressed or rolled into a sheet or board and dried, and afterward coated or saturated with asbestos, asphaltum, or any other fire or water proof paint, substantially as described.

PHILIP CAREY.

Witnesses:

CHARLES E. BROWN,  
E. W. RECTOR.