

UNITED STATES PATENT OFFICE.

LOUIS BASTET, OF SOUTH ORANGE, NEW JERSEY, ASSIGNOR TO WILLIAM ROBERTS, OF WALTHAM, MASSACHUSETTS.

COMPOSITION FOR WATERPROOFING PAPER.

SPECIFICATION forming part of Letters Patent No. 361,041, dated April 12, 1887.

Application filed July 16, 1886. Serial No. 203,212. (No specimens.)

To all whom it may concern:

Be it known that I, LOUIS BASTET, a citizen of the United States, residing at South Orange, in the county of Essex and State of New Jersey, have invented new and useful Improvements in the Manufacture of Paper, of which the following is a specification.

My improvement in manufacture of waterproof paper consists of the treatment of paper-stock, and particularly asbestos paper-stock, in the process of making it into paper, with a waterproofing composition, substantially as follows, but variable to some extent and according to circumstances: I take fifty parts mineral oil, eight parts stearic acid, fifty parts tallow, two parts fucus, (Irish moss,) and twenty parts caustic alkali. These ingredients are to be thoroughly mingled by agitation and mixed with the pulp in the engine, using about five to fifteen parts of the mixture to one hundred parts of pulp. When the pulp is well saturated with the mixture, it is to be settled with sul-

phate of aluminum. The pulp thus charged with the water-proof composition is to be subsequently manufactured into paper and paper-board in the usual way.

This composition has a material strengthening effect upon the fibers of the paper, and particularly of asbestos stock, and makes tougher and more durable paper for any use.

While I prefer to apply the mixture in the engine, it may be applied by immersing the paper in the mixture subsequently to the making of the paper.

I claim as my invention—

The composition of waterproofing ingredients for paper, consisting of mineral oil, stearic acid, tallow, fucus, and caustic alkali, substantially as described.

LOUIS BASTET.

Witnesses:

W. J. MORGAN,
S. H. MORGAN.