

United States Patent Office.

JOSEPH EVES HOVER, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 63,896, dated April 16, 1867.

IMPROVED PRINTING PAPER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSEPH EVES HOVER, of Philadelphia, Pennsylvania, have invented an Improvement in Printing Paper; and I do hereby declare the following to be a full, clear, and exact description of the manner in which the same is made.

A size is first prepared in the following manner: Four ounces, or thereabouts, of starch are dissolved in about two hundred and forty ounces of water, and about twelve ounces of commercial carbonate of lime, magnesia, or its equivalent, are added to the solution, a small portion of glue being also added if desired. This size is then applied with a brush, or in any other suitable manner, to the surface of any of the papers usually employed for printing, the paper being afterwards dried and calendered, when it will be ready for use.

I have found that printing paper coated with this size on the surface is much better adapted for the reception of printing ink than ordinary unprepared paper, that the thickness and strength of the paper are increased, and that the surface is rendered much smoother. The sizing will also neutralize any acid which may be either in the fibre or on the surface of the paper, and the latter will therefore be rendered more durable.

The sizing may be applied to the paper after it is finished or during the process of its manufacture, while other materials than those alluded to may be used for sizing the paper, the main object being to impart to the surface of the paper a permanent coating of carbonate of lime, or of magnesia, or their equivalents.

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

A printing paper, the surface of which is coated with carbonate of lime or its equivalent, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOS. E. HOVER.

Witnesses:

JOHN WHITE,

W. J. R. DELANY.