

UNITED STATES PATENT OFFICE.

T. SEYMOUR SCOTT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN MANUFACTURE OF FLEXIBLE PAPER.

Specification forming part of Letters Patent No. **216,108**, dated June 3, 1879; application filed February 8, 1879.

To all whom it may concern:

Be it known that I, T. SEYMOUR SCOTT, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful article of manufacture, Flexible Paper, of which I do hereby declare the following to be a full, clear, and exact description, and sufficient to enable those skilled in the art to which my invention appertains to make and use it.

The object of my invention is the production of a strong and water-proof flexible paper adapted for use in the making of bed-covers, table and counter covers, wall-hangings, floor-coverings, and the like.

Heretofore when paper has been employed for such purposes it has been made chiefly of rags, and has not had the requisite strength to withstand hard usage, and not being strong and flexible has been apt to crack and break in the creases.

My invention designs to effectuate the making of a paper which shall be not only flexible, but also strong and impervious to dampness.

I take a paper composed of strong fibers, such as manila, jute, linen, or the like, manufactured in the manner usual in the art, and of a quality capable of sustaining a tensile strain of not less than two hundred pounds per inch in the direction of its length when made twelve square feet to the pound. While in the process of its manufacture, or after it has been made, I render this paper impervious to water by the application, in any desired manner, of suitable size. I then pass the paper so prepared through suitable breaking stamps or rollers, so as to render it limp or flexible; and

this may be done either while the paper is yet in the paper-machine or in a separate machine adapted for the purpose.

It sometimes becomes necessary to pass the paper several times through the breaking-rolls, and sometimes in contrary directions. I then, when the uses to which it is desired to apply the product demand a very smooth surface, pass the paper which has been rendered flexible, as above described, through calender-rolls, in order to smooth it.

I have also discovered that oil-printed paper of the composition which I have mentioned may be passed in similar manner through breaking-rolls and rendered flexible.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The process herein described of making flexible paper, which consists in passing Manila or kindred paper through breaking-rolls, substantially as described.

2. The process herein described of making flexible paper, which consists in passing Manila or kindred paper through breaking-rolls, and subsequently through calendering-rolls, substantially as described.

3. As a new article of manufacture, strong flexible paper for wall-hangings, covers, and the like, substantially as described.

In testimony whereof I have hereunto signed my name this 25th day of September, A. D. 1878.

T. SEYMOUR SCOTT.

In presence of—

J. BONSALL TAYLOR,
W. C. STRAWBRIDGE.