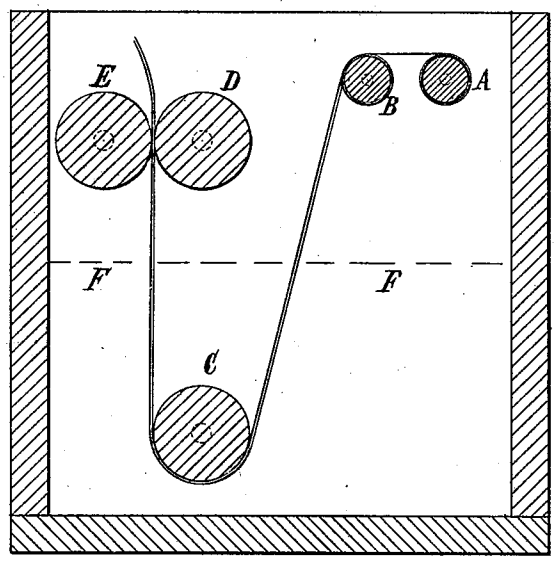
A. SACKETT.

Process of Coating Paper and Cloth.

No. 226,459. Patented April 13, 1880.



Witnesses.
P. E. Raqué.
M. Randolph

Inventor.
Augustine Sackett.

UNITED STATES PATENT OFFICE.

AUGUSTINE SACKETT, OF NEW YORK, N. Y.

PROCESS OF COATING PAPER AND CLOTH.

SPECIFICATION forming part of Letters Patent No. 226,459, dated April 13, 1880.

Application filed October 4, 1879.

To all whom it may concern:

Be it known that I, AUGUSTINE SACKETT, of New York city, in the county of New York and State of New York, have invented a new and useful Process for Coating Rolls of Paper on one side, preserving at the same time the reverse side free from the coating material, of which the following is a specification.

This invention is especially useful where it is desired to coat one side of the paper with a cement which cannot well be applied with brushes, either on account of its semi-fluid consistency or the necessity of applying it at a high degree of heat. This has been done by drawing the paper under a revolving cylinder, the lower part of which cylinder is immersed in the coating material, depending upon the close contact of the surfaces of the cylinder and paper to prevent the coating material from coating both sides of the paper. It is difficult to do this effectually, and the cylinder and clean side of the paper are liable to become, to some extent, covered with the cement.

The object of my invention is to avoid this difficulty.

I accomplish this by wholly immersing the cylinder, which may either revolve or remain stationary, and instead of passing one sheet of the paper around it I pass two sheets in close contact when they enter the cement, and drawing them up between two rollers or scrapers so adjusted as to remove the superfluous cement just after the paper leaves the surface of the cement. It will then be found that the cement has not penetrated between the sheets of paper, but by its weight has pressed them closely together, thereby keeping one side of each sheet quite clean, excepting a very narrow margin at the edges.

If it is desired to cement together the two sheets, it may readily be done by rolling them together as they emerge from the scrapers.

The process can also be employed by only partially immersing the cylinder when it is desired to cement the two sheets together, as the coated and partially-coated sides will come in contact when rolled up.

My invention is especially applicable in cases where the coating material is only semi-fluid; but it will accomplish the purpose where there is a high degree of fluidity. It is not confined in its application to paper, but textile fabrics may be coated, provided the cement is of such consistency that it will not penetrate through the fabric.

One web of cloth and one of paper may also be similarly coated by passing them together through the coating material.

The coating material may be roofing-pitch or like substance, paste, enamel, coloring material, &c.

In the drawing, A B are rolls of paper; C, cylinder; D E, scrapers; F, top of cement.

I claim as my invention—

The process of coating a web or continuous sheet of paper or cloth on one side by passing two sheets or webs of the fabric it is desired to coat through the coating material, having the reverse sides in close contact, substantially as above described.

AUGUSTINE SACKETT.

Witnesses:

CHARLES H. SMYTH,

ANTHONY N. W. MULHERN.