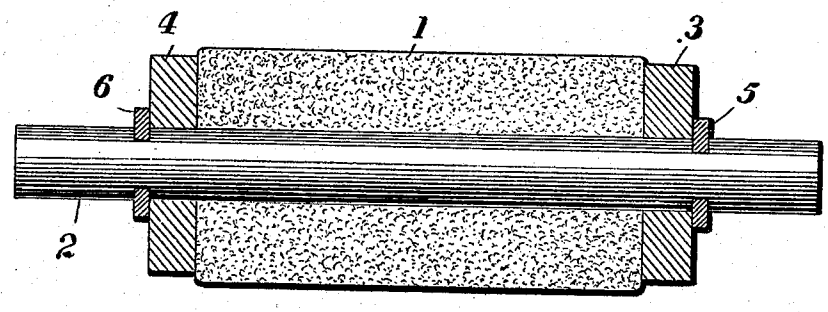
J. MACADAM.

CALENDER ROLL.

APPLICATION FILED SEPT. 3, 1907.

907,829.

Patented Dec. 29, 1908.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN MACADAM, OF EDDYSTONE, PENNSYLVANIA.

CALENDER-ROLL.

No. 907,829. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed September 3, 1907. Serial No. 391,263.

To all whom it may concern:

Be it known that I, JOHN MACADAM, a citizen of the United States, and resident of Eddystone, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Calender-Rolls, of which the following is a specification.

This invention relates to calender rolls and its object is to produce a roll of such character that it will not be indented by the seams in the textile fabric passed between it and the metal roll to such an extent as to injure the finish obtained, and also to produce such a roll which will withstand, to a great degree, the effects of the heat which is necessary in the calendering operation.

As is well known, in the calendering operation textile fabric is passed between metal rolls and rolls made of other material, and that said other material has heretofore consisted in some instances of cotton, paper, corn husks, and combinations of these. It has been found, however, that while some of these rolls can be so made as to prevent to a certain extent indentation by seams so as to injure the finish, they are nevertheless subject to injury by the heat necessary in the calendering operation, and soon become defective and useless. In experimenting to overcome this difficulty I have made the unexpected discovery that Tampico fiber can be made into a calender roll which will not be indented by the seams of the fabric and which will resist the action of the heat to a remarkable degree. In making the roll the Tampico fiber is compressed in bulk under extremely high pressure so as to produce a mass of the proper shape having great hardness and resiliency. Tampico fiber is produced from a kind of wild pineapple which grows in southern countries and it is used in place of bristles for brushes. It is also extensively used in making bagging, carpets, hammocks, cordage, nets, etc.

In the accompanying drawing I have shown partly in section a calender roll embodying my invention.

In this drawing the roll 1 made of Tampico fiber is mounted on a metal shaft 2 and is held in place by the end pieces 3, 4, which are fastened to the shaft by the locking rings 5, 6.

I do not herein claim means for mounting the calender roll, since the present invention relates simply to the structure of the roll itself.

Having now described the invention, what is claimed is:

1. A calender roll made of Tampico fiber.

2. A calender roll made of Tampico fiber compressed into a hard resilient mass of the proper shape.

3. A calender roll made of Tampico fiber compressed into a hard mass of the proper shape and characterized by its resiliency and its resistance to the effect of heat.

In testimony whereof I affix my signature in presence of two witnesses

JOHN MACADAM.

Witnesses:
EDGAR L. KNAPP,
ANNE RULON GRAY.