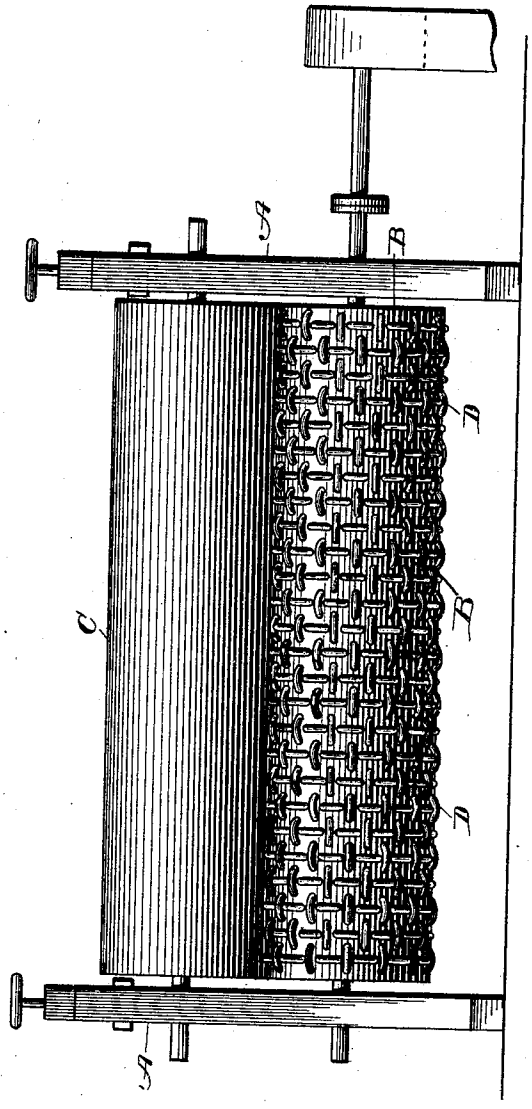
No. 673,041. Patented Apr. 30, 1901.

R. A. G. AULT.

MACHINE FOR INDENTING PAPER STOCK.

(Application filed Dec. 18, 1900.)

(No Model.)



Witnesses:
Thomas Durant
Elizabeth Guppert

Inventor:
Robert A. G. Ault
by Church & Church
his Attys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ROBERT A. G. AULT, OF YORK, PENNSYLVANIA.

MACHINE FOR INDENTING PAPER-STOCK.

SPECIFICATION forming part of Letters Patent No. 673,041, dated April 30, 1901.

Application filed December 18, 1900. Serial No. 40,297. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. G. AULT, a citizen of the United States, residing at York, in the county of York, State of Pennsylvania, have invented certain new and useful Improvements in Machines for Indenting Paper-Stock; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to machines for indenting paper-stock in the making of paper for use as carpet-linings or for wrapping fragile objects for transportation, the object being to provide a cheap effective machine for performing the indenting operation.

Broadly stated, the invention consists of a machine for indenting paper-stock having a platen-roll and a coöperating pattern-roll, the former preferably having an elastic or resilient surface and the latter having its indenting-surface formed by independent projections secured thereto in the contour of the design to be produced.

The invention consists in certain novel details of construction and combinations and arrangements of parts, all as will be now described and the particular features of novelty pointed out in the appended claims.

The accompanying drawing is a face view of a portion of a paper-machine employing indenting-rolls embodying my invention.

In said drawing the letter A indicates a framework carrying a pair of rolls, one of which, B, is the pattern-roll, preferably mounted in fixed bearings in the frame A, and the other of which, C, is the platen-roll, preferably mounted in adjustable bearings and preferably having an elastic or yielding surface, as soft rubber.

The pattern-roll B may be of any suitable material affording a sufficiently rigid body, preferably wood, the pattern being formed thereon by driving into the roll pegs, pins, staples, or the like, the ends of which are allowed to project a sufficient distance above the surface of the roll to form the indentations in the paper-stock.

The indenting projections shown in the accompanying drawing are formed by staples D, having their pointed ends driven into the roll; but it will be understood that I do not limit myself to this particular form or style of projection, and while I prefer to arrange them to form a pattern resembling woven mesh it is obvious a great variety of patterns may be produced by arranging the projections differently on the rolls. The construction of the pattern-roll is at once simple, cheap, and effective, and the completed roll is light and rigid.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for indenting paper-stock the combination with a platen-roll adapted to receive the indentations formed in the paper-stock, of a coöperating pattern-roll having its pattern-surface formed by separate integral projections affixed in the roll with their outer ends projecting above the surface of the roll.

2. An indenting-roll for paper-machines having a rigid body and an indenting-surface formed by staples partially driven into the roll; substantially as described.

3. In a machine for indenting paper-stock, the combination with a platen-roll adapted to receive the indentations made in the paper-stock, of a coöperating indenting-roll having its indenting-surface formed by the outer rounded ends of projections the pointed ends of which are driven into the body of the roll; substantially as described.

ROBERT A. G. AULT.

Witnesses:
T. B. BAIRD,
C. T. KRAFT.