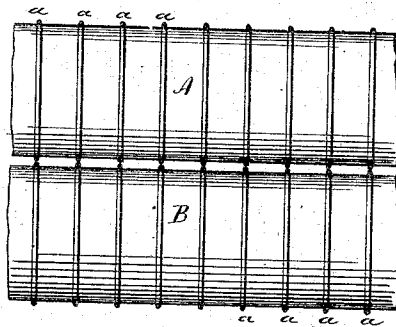


H. D. CONE.
Process for Ruling Paper.

No. 157,495.

Patented Dec. 8, 1874.

fig. 1



Witnesses.
D. H. Chumway
W. A. Bass

Henry D. Cone
Inventor
By Atty.
John E. Earle

UNITED STATES PATENT OFFICE.

HENRY D. CONE, OF STOCKBRIDGE, MASSACHUSETTS.

IMPROVEMENT IN PROCESSES FOR RULING PAPER.

Specification forming part of Letters Patent No. **157,495**, dated December 8, 1874; application filed July 13, 1874.

To all whom it may concern:

Be it known that I, HENRY D. CONE, of Stockbridge, in the county of Berkshire and State of Massachusetts, have invented a new Improvement in Process for Ruling Paper; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, side view of a pair of rolls for ruling under my improved process.

This invention relates to an improved process for producing lines upon the surface of paper, as a substitute for the well-known colored or water lines; and the invention consists in the process of ruling paper by pressing or condensing the fiber of the paper by passing it between pattern-rolls, which press from opposite sides on coinciding parts.

The best device known to me for carrying out my invention is shown in Fig. 1; and this consists in a pair of rolls, A B, each formed

with corresponding annular ribs *a*, each rib the width of the line to be produced, and the several ribs distant from each other according to the distance between the lines to be produced. The rolls are set so that the space between the ribs of one roll and the ribs of the other roll is slightly less than the thickness of the paper to be ruled. The paper is passed between the rolls, the ribs compress the paper, and leave a line upon the surface, the pressure solidifying the paper throughout the line, so as to give it a different shade, or deepening the color, and producing clearly-defined lines corresponding to the rib.

I claim as my invention—

The process herein described for ruling paper, consisting in pressing or condensing the fiber of the paper by passing it between pattern-rolls which press from opposite sides on coinciding parts, substantially as specified.

HY. D. CONE.

Witnesses:

SAMUEL G. BLACKMAN,
JOHN E. EARLE.