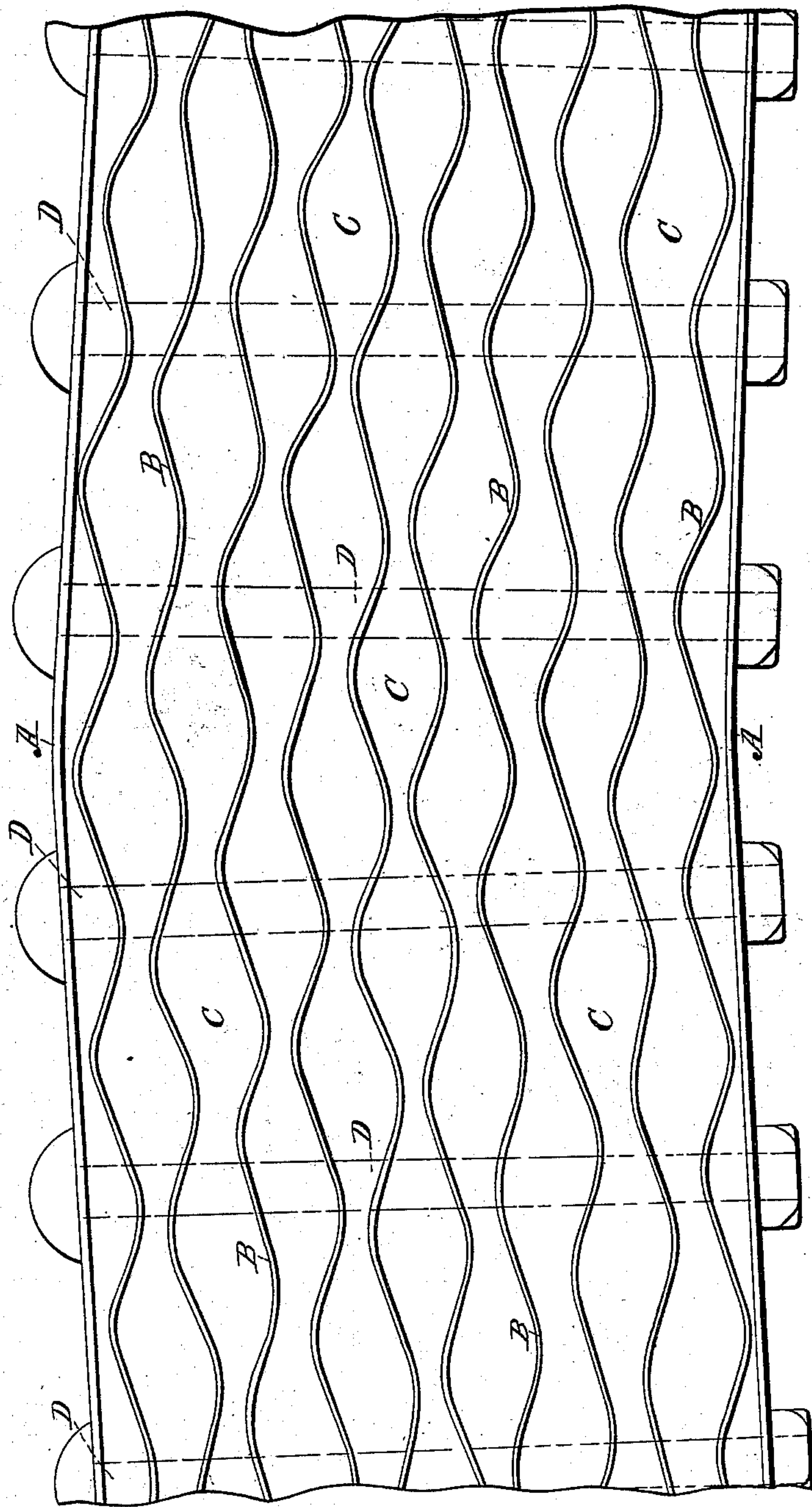


A. HANKEY.
Bed-Plate for Paper-Mill Rag-Engines.
No. 221,812. Patented Nov. 18, 1879.



Witnesses=
Edwin E. Moore
John C. Dewey

Inventor=
Anthony Hankey

UNITED STATES PATENT OFFICE.

ANTHONY HANKEY, OF LEICESTER, MASSACHUSETTS.

IMPROVEMENT IN BED-PLATES FOR PAPER-MILL RAG-ENGINES.

Specification forming part of Letters Patent No. **221,812**, dated November 18, 1879; application filed October 2, 1879.

To all whom it may concern:

Be it known that I, ANTHONY HANKEY, of Leicester, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Bed-Plates for Paper-Mill Rag-Engines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

In the drawing, which represents a top or plan view of a section of my improved bed-plate for paper-rag engines, A A represent the metallic side pieces; B B, the cutters or blades; C, the wood and filling between the blades; D, the cross-bolts which pass through from side to side and hold the parts securely together.

My improved bed-plate is made in the usual manner, excepting in the form and arrangement of the cutting-blades B. These blades or knives are made in serpentine form, or with a series of right-and-left bends, and without any acute angles, and are, furthermore, so constructed and arranged that the curves in each blade are different and in a different direction from the bends or curves in the blade on each side thereof. Consequently the stock is not crowded along to a particular point, but is changed and forced laterally by the action of the cutting-wheel upon the cutting-blades as it passes or forces its knives with a shearing action over the different blades B.

With my improved form of blades arranged and combined together as described, the stock is sheared so as to leave the fiber of the paper-stock longer and more perfect for the manufacture of strong and durable paper, while at the same time a greater uniformity of reduction and form of fiber are obtained, thereby enhancing the character and value of the paper.

I am aware that Letters Patent were granted to William Clarke, October 9, 1849, No. 6,784, and to Taylor and Brightman, November 14, 1871, No. 120,837; and I do not wish to be understood as claiming anything shown and described in said Letters Patent, or either of them; nor do I claim herein anything shown and described in the Letters Patent granted to me March 22, 1870, No. 101,008; and I hereby disclaim the invention described and shown in said Letters Patent, and each of them; but

What I claim as my invention, and desire to secure by Letters Patent, as an improved article of manufacture, is—

A bed-plate for paper-mill rag-engines, the blades of which are made separately and in serpentine form, without any acute angles, and arranged in reverse positions in relation to each other, and so as to bring each alternate curve out of line with the curve of the next succeeding blade, as shown and described, and for the purposes set forth.

ANTHONY HANKEY.

Witnesses:

EDWIN E. MOORE,
JOHN C. DEWEY.