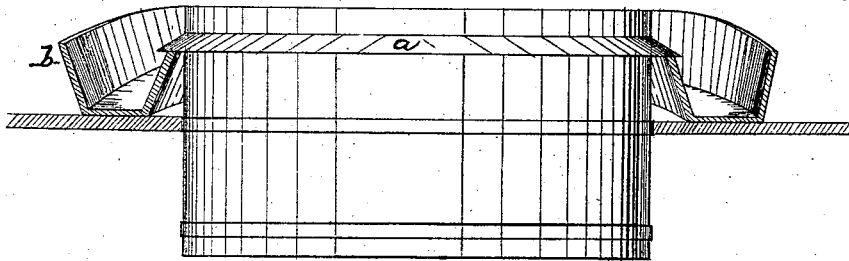


S. A. Perkins
Wood Pulp Grinding Machine.

112734

PATENTED MAR 14 1871.



Witnesses:

Newton Cranford
Charles Chinn

Inventor

S. A. Perkins by
H. W. Beadle atty.

United States Patent Office.

SANDFORD A. PERKINS, OF TOPSHAM, MAINE.

Letters Patent No. 112,734, dated March 14, 1871.

IMPROVEMENT IN WOOD-PULP MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SANDFORD A. PERKINS, of Topsham, in the county of Sagadahoc and State of Maine, have invented a new and useful Band or Hoop for a Pulp-Machine; 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 and to the letters of reference marked thereon.

This invention relates to machines for grinding wood-pulp, and more particularly to the machine known as the Taft machine. It is applicable to any machine for grinding having a horizontally-revolving stone.

It consists of a band, of any suitable material, preferably metal, so arranged on the stone that the pulp and water, flowing radially from the upper surface of the stone, shall be directed laterally into a suitable trough, and not fall between the stone and the floor.

In the drawing which accompanies this specification the figure represents a side elevation of the stone and hoop, with a view, in section, of the trough.

The hoop *a* is placed on the stone, suitably fixed, and inclined, at any desired angle, to conduct the pulp

and water into the trough *b*, which surrounds the stone.

When the stone is revolving rapidly the water and pulp are thrown by centrifugal force into the trough, which should be so shaped as to catch and retain them.

When, however, the stone is stopped and the centrifugal force ceases, the water and pulp, without my improvement, fall between the stone and the floor.

The band, however, entirely prevents this, and conducts the whole without loss or annoyance to the trough or to the platform.

I do not confine myself to any peculiar shape of the ring or material; but

Having thus fully described my invention,

What I claim as new and desire to secure by Letters Patent is—

A band, placed, as described, on the stone of a pulp-grinding machine, for the purpose set forth.

This specification signed and witnessed this 7th day of February, 1871.

SANDFORD A. PERKINS.

Witnesses:

JAMES BARRON,
F. R. HOWLAND.