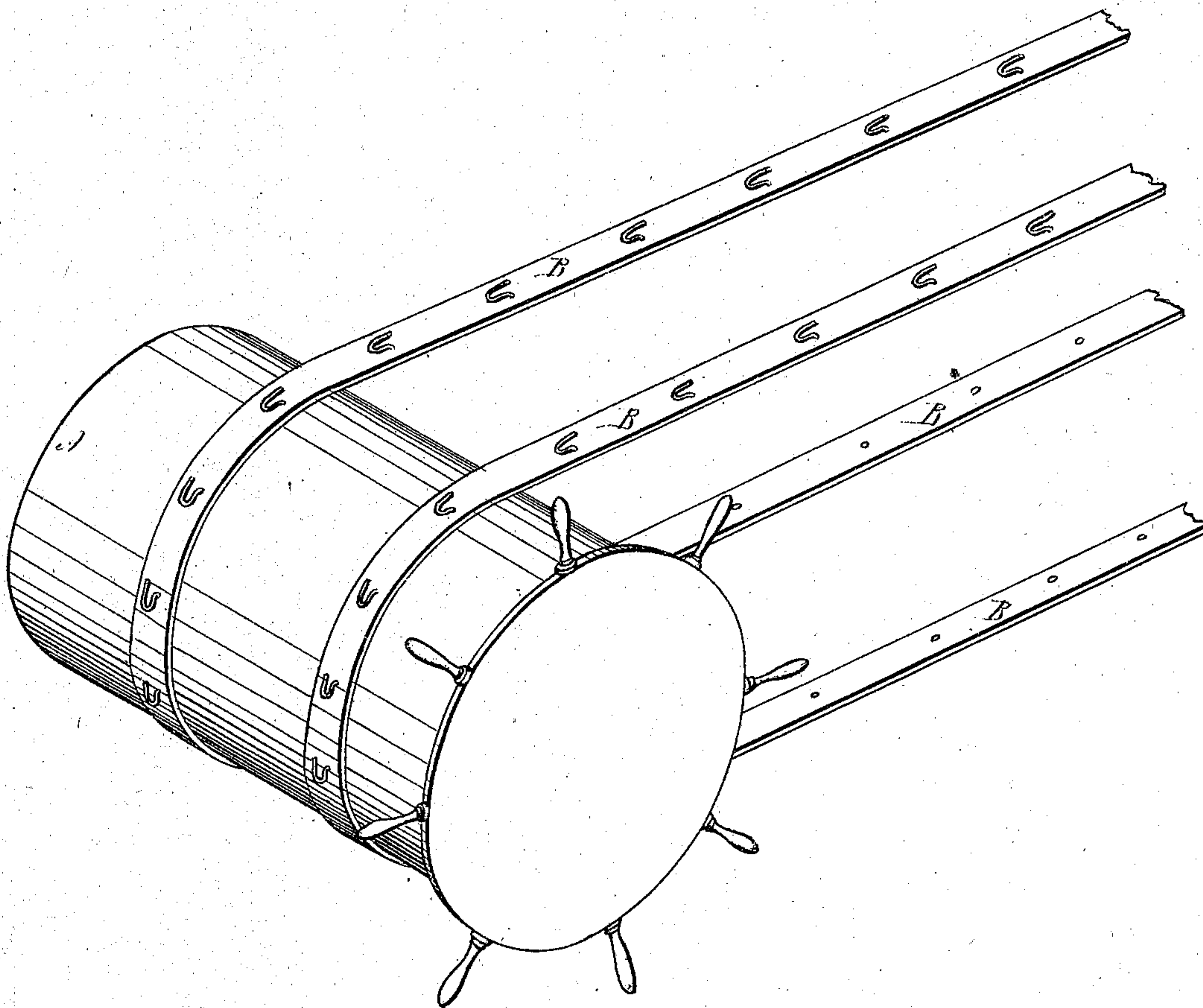


J. KLEIN.
APPARATUS FOR THE MANUFACTURE OF ALBUMENIZED PAPER.
No. 105,464. Patented July 19, 1870.



Charles Kroghmann
Frank A. Johnson
Witnesses

J. Klein
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Letters Patent No. 105,464, dated July 19, 1870.

IMPROVEMENT IN APPARATUS FOR THE MANUFACTURE OF ALBUMENIZED PAPER.

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

Be it known that I, JAKOB KLEIN, a native of Hesse Darmstadt, in the North German Confederation, have invented certain Improvements in the Apparatus used in the Manufacture of Albumenized Paper, of which the following is a description, reference being made to the drawing that accompanies this specification, and which is made a part thereof.

It is usual, in manufacturing albumenized paper, to place the surface of the paper on the top of the liquefied albumen, and when a sufficient quantity has adhered, to carry the sheet of paper to a rack or frame where it is hung up to dry. This process is tedious, and takes up a great deal of time, and, moreover, the liquid albumen that drains off is lost, and the paper is liable to dry up clouded or streaked.

My invention obviates this, saves all the albumen that drains off, and permits the operator to hang up the paper without leaving his place. This I effect by placing in proper position a revolving drum having suitable handles, so that the revolutions can be controlled; round this drum two bands are passed, which, being movable, can be readily adjusted to the width of any paper; at proper distances these bands have hooks placed in them, and strips of wood connect the bands together.

The operator stands in front of a trough containing prepared albumen, and, after having dipped up the requisite quantity, takes up the sheet of paper and adjusts two of the corners on two of the hooks; the surplus albumen drains off into the trough which is underneath, and the operator then gives a drum a par-

tial revolution which carries the paper forward into a chamber heated to a proper degree, where it becomes dried and hardened quickly; and is eventually carried out of the heated chamber to a place of delivery, as the bands progress onward, when the drum is revolved for each succeeding sheet. These bands are of any desired length, and, at a convenient distance from the main drum, pass over another one, or a roller, so that they are kept at a proper tension.

In the drawing that accompanies this specification—

A is the drum.

B B are bands with the hooks.

The paper, as it slowly progresses onward toward the heated chamber, passes over a tray suitably inclined toward the main trough, so that all the albumen that drains off is saved; thus it will be seen that, with my device, much of the material is saved that has hitherto run to waste, and a better article of albumenized paper is made—because uniformly covered—in a quicker time than by the ordinary process.

Having now fully described my invention,

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

An apparatus for manufacturing and drying albumenized paper, arranged with drum A and bands B B, substantially as described.

JAKOB KLEIN.

Witnesses:

CHARLES KROGMANN,
FRED. A. JOHNSON.