

(No Model.)

L. ENGELMAYER.

SORTING DRUM FOR REMOVING KNOTS FROM DISSOLVED CELLULOSE.

No. 547,600.

Patented Oct. 8, 1895.

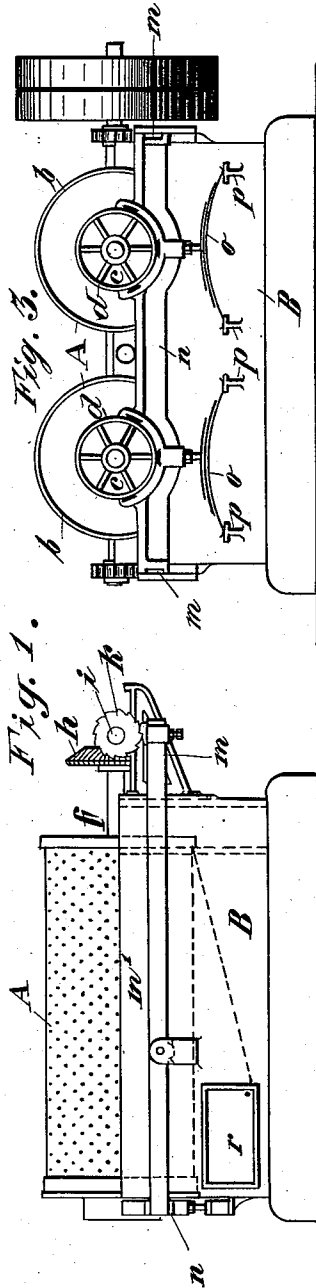


Fig. 3.

Fig. 1.

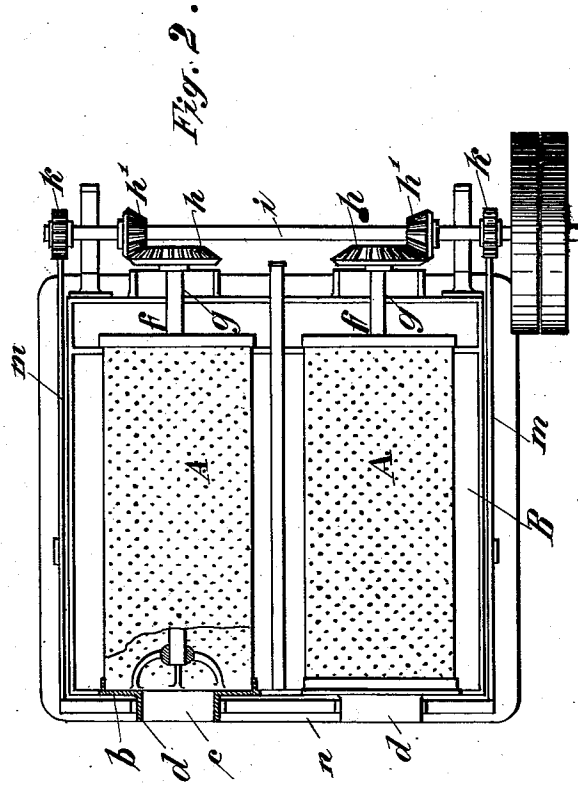


Fig. 2.

Witnesses:
W. C. Pinckney
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UNITED STATES PATENT OFFICE.

LUDWIG ENGELMAYER, OF ASCHAFFENBURG, GERMANY.

SORTING-DRUM FOR REMOVING KNOTS FROM DISSOLVED CELLULOSE.

SPECIFICATION forming part of Letters Patent No. 547,600, dated October 8, 1895.

Application filed March 7, 1895. Serial No. 540,811. (No model.)

To all whom it may concern:

Be it known that I, LUDWIG ENGELMAYER, a subject of the Emperor of Germany, residing at Aschaffenburg, Bavaria, Germany, have invented certain new and useful Improvements in Sorting-Drums for Removing Knots from Dissolved Cellulose, of which the following is a specification.

The present invention consists of a sorting-drum for removing the knots and coarser parts from dissolved cellulose, said sorting-drum being not only caused to rotate, but having also a shaking or bumping movement. The shaking or bumping motion is imparted to the drum by means of a shaking-wheel mounted on the main driving-shaft and acting on suitable levers adapted to raise and lower one end of the drum.

In order that the present invention may be more easily intelligible, reference is had to the accompanying drawings, in which similar letters denote similar parts throughout the several views.

Figure 1 is a side elevation, Fig. 2 a plan, and Fig. 3 an end elevation, of an apparatus constructed according to the present invention.

In the apparatus shown two drums A A are mounted in a vat-like framing B, said drums having their front ends partly closed by covers *b*, having flanged mouths *d*, bearing in corresponding depressions of a cross-bar *n*, Fig. 3, mounted at the front of the frame, as hereinafter more particularly described. At the rear end the said drums are supported by their shafts *f f*, attached in said drum ends by means of skeleton frames in the usual manner and running in bearings *g g* at the rear of the frame, Fig. 2. Each of these shafts carries a bevel *h*, which engages in a corresponding bevel *h'* on the main driving-shaft *i*, mounted at the rear of the frame B and extending across the same at right angles to the shafts of the drums. The said driving-shaft carries suitable driving-pulleys, and also at each end a shaking-wheel K K, which plays on the end of the lever *m*, pivoted at each side of the frame at *m'* and supporting at its front end the traverse *n*, carrying the front ends of the drums A A. The said traverse or cross-bar *n* is further provided with springs *o o*, arranged beneath said bar and resting on brackets *p p*, fast on the frame B. The cellulose is introduced into the perforated drums A at *c* and passes through the

perforations, falling into the receptacle B, whence it may be removed through the opening *r*, Fig. 1. It will be obvious that when the shaft *i* is rotated not only will the drums A A be set in a rotary motion, but the same will also receive an up-and-down shaking motion, imparted to them by the shaking-wheels K K acting on the levers *m m*, which in their turn act to raise and lower the front ends of the drums by means of the cross-bar *n*, to which said pivot-levers are connected.

I wish it to be clearly understood that I do not confine myself to any particular number of drums, reserving to myself the right of employing more than two, or, if desired, only one of such drums.

I claim as my invention—

1. The combination with a suitable receptacle, a perforated cellulose sorting drum mounted therein and means for rotating the same, of a cross bar supporting the front end of said drum, toothed wheels mounted on a transverse shaft at the rear of said drum and levers *m* pivoted to the frame of the receptacle, connected at their front ends to said cross bar and at their free ends co-operating with said toothed wheels, substantially as set forth.

2. The combination of horizontally mounted rotary drums A and means to rotate same, a cross bar to support the front ends of said drums as specified, lateral levers *m m* pivoted to the drum-containing receptacle and supporting said cross bar, a driving shaft *i*, having shaking wheels K K to operate the free ends of said levers *m m* in the manner and for the purpose substantially as described.

3. The combination of horizontally mounted rotary drums A and means to rotate same, a cross bar to support the front ends of said drums as specified lateral levers *m m* pivoted to the drum containing receptacle, and supporting said cross bar, springs *o o* under said cross bar, brackets *p p* to support said springs, a driving shaft *i* having shaking wheels K K to operate the free ends of said levers *m m* in the manner and for the purpose substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LUDWIG ENGELMAYER.

Witnesses:

ALVESTO S. HOGUE,
JEAN GRUND.