

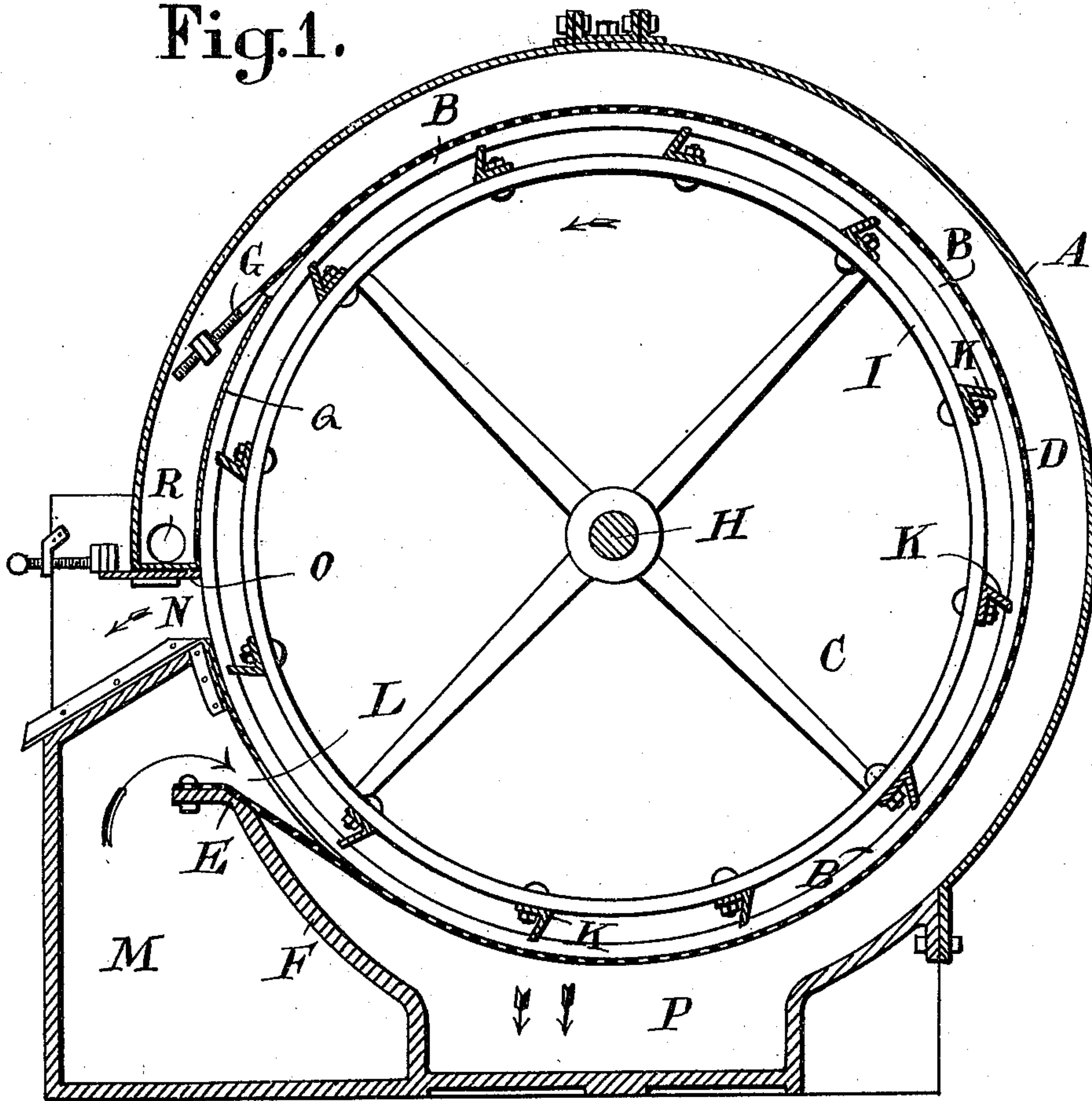
B. THARALDSEN.
PULP STRAINER.
APPLICATION FILED AUG. 8, 1910.

983,784.

Patented Feb. 7, 1911.

2 SHEETS—SHEET 1.

Fig. 1.



Attest.

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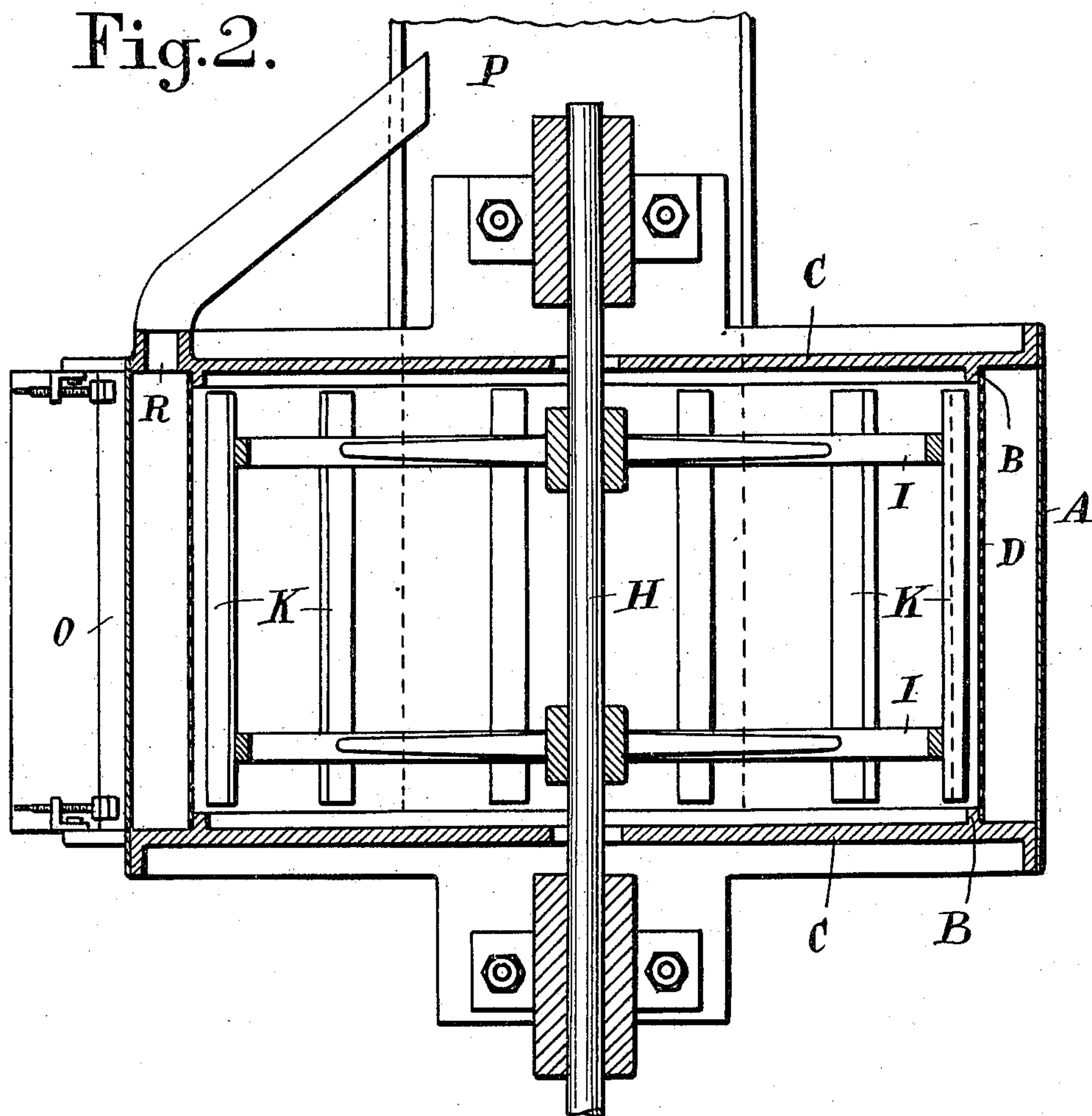
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2 SHEETS—SHEET 2.



Attest,
Bernt M. Stahl,
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Inventor,
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UNITED STATES PATENT OFFICE.

BERNT THARALDSEN, OF CHRISTIANSAND, NORWAY.

PULP-STRAINER.

983,784.

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed August 8, 1910. Serial No. 576,253.

To all whom it may concern:

Be it known that I, BERNT THARALDSEN, a subject to the King of Norway, residing at Himsfos Fabriker per Christiansand, Norway, have invented certain new and useful Improvements in Pulp-Strainers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to pulp strainers and more especially to that type of strainers having a stationary cylindrical straining surface, the axis of which is horizontal, and having inside of said straining surface a rotatory member serving to spread the pulp around the surface, causing the fine fibers to be pressed through the holes of the strainer plates and carrying the coarse fibers to an outlet opening.

My invention consists in the special arrangements of the inlet opening for the pulp and the outlet opening for the coarse particles and also in the general combination and construction of the apparatus.

A form of apparatus embodying my invention is shown in the accompanying drawing, in which—

Figure 1 is a cross section through a strainer constructed according to the present invention, and Fig. 2 is a horizontal section through the same.

Within the casing A is placed on annular ribs B cast on the end walls C of said casing a strainer plate or strainer cloth D, one end of which is secured at E to the frame F, and its other end being connected with the frame by means of a tightening device G.

On the shaft H is secured two wheels or rings I carrying vanes K, which are suitably inclined rearwardly with respect to the direction of rotation. The vanes may also, if desired, be arranged on a drum.

L is an inlet opening for the pulp which is fed through a chute or channel to the distribution chamber M disposed in front of the inlet opening, which extends across the

whole length of the strainer. Arranged near the inlet slot is an outlet slot for the coarse mass or the knots, which outlet slot likewise extends across the whole length of the apparatus. The discharge is controlled by a damper O, adapted to be adjusted inwardly.

The pulp that has passed through the strainer, partly flows along the wall of the strainer directly down into the discharge trough P, and partly collects in the space between the non-perforated extension Q of the strainer plate and the wall of the casing above the outlet N for the coarse particles, from which space it is conducted through a flexible tube or a channel R to the discharge trough P.

The apparatus has a great working capacity, uses a small amount of power and occupies but little space, whereas it is cheap and simple in manufacture.

What I claim is:

1. In a pulp strainer a horizontal cylindrical straining surface, a casing inclosing the same, a rotating wheel or drum having vanes in close proximity to the inner face of the straining surface, an inlet opening for the pulp on the side of the strainer and an outlet opening for the coarse fibers along the said inlet opening and close above the same.

2. In a pulp strainer a cylindrical casing, comprising cast iron endwalls, annular flanges on the inside of said endwalls, a straining member between said endwalls, resting on the said flanges, means to hold said straining member stretched from a point on one side of the apparatus around the flanges to another point on the same side, but above the first named point, leaving between the ends an inlet opening for the pulp and an outlet opening for the coarse particles, and a rotatory wheel inside of said straining surface, said wheel having vanes in close proximity to the straining surface.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

BERNT THARALDSEN.

Witnesses:

TAVGELEYÓNG VESTLY,
HANNE PETTERSEN.