No. 817,007. PATENTED APR. 3, 1906.

H. SANGUINETTI.

OSCILLATING CYLINDRICAL PULP STRAINER.

APPLICATION FILED SEPT. 18, 1905.

FIG. 1.

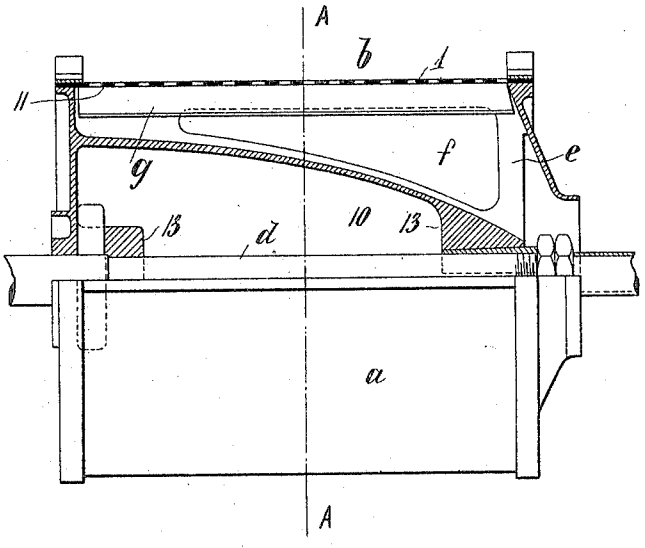
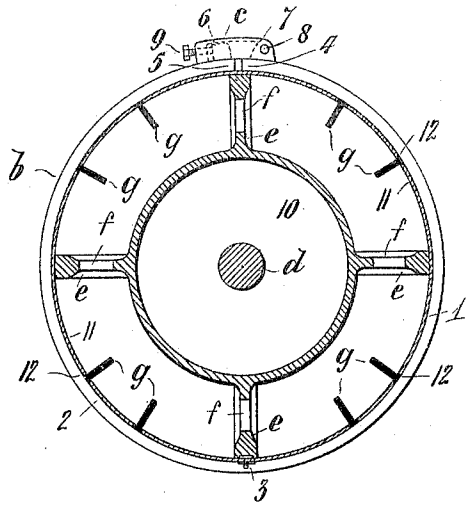


FIG. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

HERBERT SANGUINETTI, OF LONDON, ENGLAND.

OSCILLATING CYLINDRICAL PULP-STRAINER.

No. 817,007. Specification of Letters Patent. Patented April 3, 1906.

Application filed September 18, 1905. Serial No. 278,950.

To all whom it may concern:

Be it known that I, HERBERT SANGUINETTI, gentleman, a subject of the King of Great Britain, residing at 110 Iermyn street, London, England, have invented certain new and useful Improvements in and Relating to Oscillating Cylindrical Pulp-Strainers, of which the following is a specification.

This invention relates to cylindrical strainers for pulp of the oscillatory type, such as are described in the specification of British Letters Patent granted to me and Percy Herbert Sanguinetti, No. 9,682, dated April 27, 1898, and is designed to simplify and improve the construction and use of such apparatus.

The drawings show by Figure 1 a longitudinal elevation, with the upper portion in section, of the improved strainer, and by Fig. 2 a cross-section about the line A A of Fig. 1.

The strainer *a* is made up of plates *b* in two pieces 1 2, and these two pieces are hinged at the bottom at 3 and at their ends 4 5 are joined together by fastenings *c*, which can be very quickly connected and tightly adjusted. A convenient form of such fastening consists of a projection or lug 6 on the one piece 2 of the plate *b* and a hinged piece or loop 7, hinged at 8, onto the other piece 1 of the plate *b* and capable of being turned over onto or from the lug 6 to hold or be free from it, and thereby hold the pieces 1 2 together or release them. A screw 9 on the loop 7 can be tightened up so as to press against the lug 6 when the parts are engaged and draw the two pieces 1 2 tightly together and compress the packing interposed between them, while for disengagement and opening of the cylinder the screw 9 is simply loosened and the loop 7 or recessed hinged part thrown back.

The central portion 10 of the chamber in which is located the axis *d* of the cylinder *a* is formed conically, as shown, and the sides thereof may be plane or somewhat curved, as in Fig. 1. The "fans" (as they are called) or partitions *e* are preferably formed with elongated openings *f*, arranged radially in those partition-webs. Between these partitions on the inner surface 11 of the strainer-plates *b* are provided other blades or plates *g*, arranged in the case of four partitions, as indicated in the present drawings, two extra blades *g g* to each compartment or space between the partitions. These projecting internal blades *g* may be two inches, more or less, in depth and one-half an inch in thickness, and these (say) eight blades *g* may extend from end to end of the drum or cylinder and be fixed in position between the slits in the strainer-plates, so as to avoid interference with the free access to those slits and delivery therefrom of the strained matters by means of dovetailed slots or grooves at 12, into which the base edges of the blades are entered and then fixed by sweating, or this connection may be effected by analogous means. The strainer may be oscillated in the vat by means of the said axis *d*, on which the central cone 10 with its end pieces 13, partitions *e*, and plates *g* are borne by means of a crank-arm on the part of that axis protruding through a bearing in the tank, to which crank-arm is connected one of the ends of a double or twin connecting-rod, the other of whose ends is connected to a crank-plate mounted on and driven by the axis of the driving mechanism in any usual or convenient manner.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The combination of an oscillatory cylindrical pulp-strainer having a central axis, and a conical-shaped element surrounding said axis and forming a central chamber and provided with perforated partitioning-webs engaging the inner face of the strainer.

2. The combination of an oscillatory cylindrical pulp-strainer having a central axis, a conical-shaped element surrounding said axis and forming a central chamber and provided with perforated partitioning-webs engaging the inner face of the strainer, and blades connected with the inner face of the strainer and interposed between the partitioning-webs carried by the conical-shaped element.

3. The combination of an oscillatory cylindrical pulp-strainer formed of a plurality of hinged plates and having a central axis, means for securing said plates together, and a conical-shaped element forming a central chamber surrounding said axis and provided with perforated peripheral partitioning-webs engaging the inner face of said cylindrical strainer.

4. The combination of an oscillatory cylindrical pulp-strainer formed of a plurality of hinged plates and having a central axis, means for securing said plates together, a conical-shaped element forming a central chamber surrounding said axis and provided

with perforated peripheral partitioning-webs engaging the inner face of said cylindrical strainer, and blades connected with the inner face of the strainer and interposed between the webs of said element.

5. An oscillatory cylindrical pulp-strainer having a central axis and formed of a plurality of hinged sections, an adjustable clamping device for connecting the said sections together, and blades secured to the inner face of said sections.

6. The combination with an oscillatory perforated cylindrical element having a central axis, of a conical-shaped element surrounding and connected to said axis and provided with peripheral perforated ribs engaging with the inner face of said cylinder substantially the entire length thereof.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HERBERT SANGUINETTI.

Witnesses:
WALTER J. SKERTEN,
G. F. WARREN.