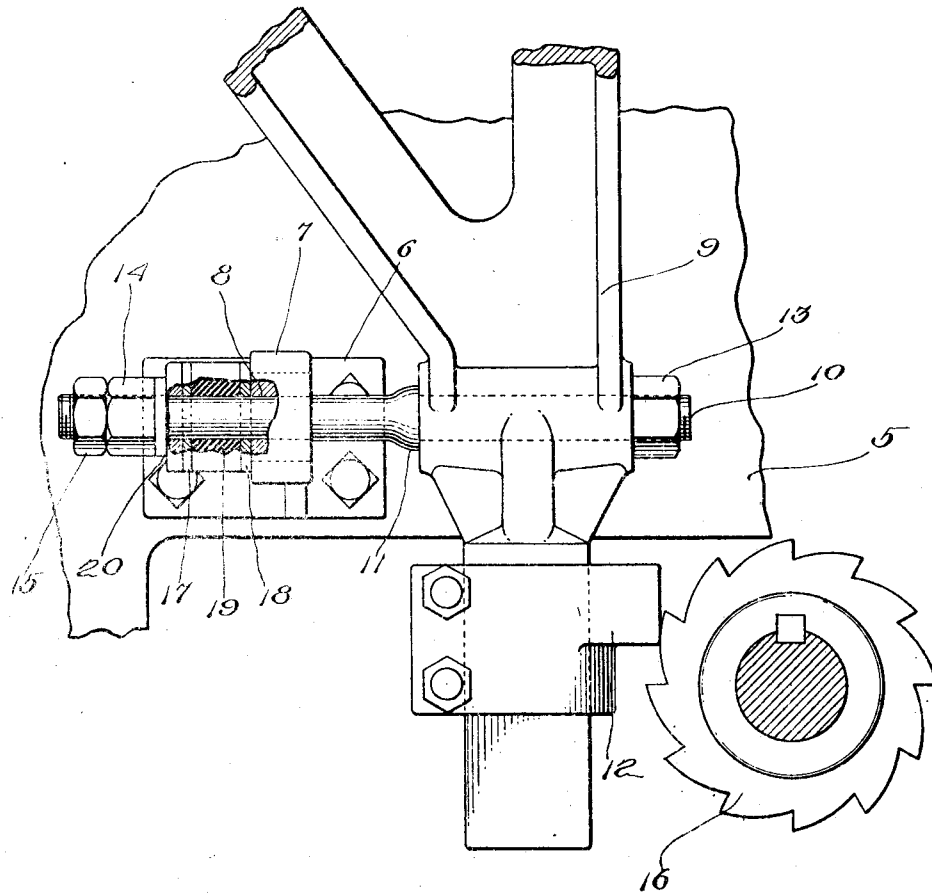


O. WANDEL.
PULP SCREENING MACHINE.
APPLICATION FILED MAR. 11, 1912.

1,036,390.

Patented Aug. 20, 1912.



Witnesses:

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UNITED STATES PATENT OFFICE.

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PULP-SCREENING MACHINE.

1,036,390.

Specification of Letters Patent.

Patented Aug. 20, 1912.

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To all whom it may concern:

Be it known that I, OTTO WANDEL, of Walpole, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Pulp-Screening Machines, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

This invention has reference to improvements in machines for screening pulp and particularly to such machines in which the pulp screens are mounted in vibratory arms or frames of the general nature described in Letters Patent No. 955,025, granted to me April 12, 1910.

The present invention has particular reference to the improved means for limiting the movement of the arm or frame on which the pulp screen is carried.

One object of the invention is to so construct the cooperating members of a buffer device for limiting the vibratory movement of the screen carrying member that such device may be more conveniently located and accessible than as heretofore constructed and that the wearing parts of said buffer parts may be readily renewed.

Other objects of the invention will appear from the following description.

The invention consists in the novel construction of buffer device and its combination with the frame and arm of a pulp screening machine of the nature described.

The drawing represents a view in elevation of parts of the frame and the screen carrying arm of a pulp screening machine of the nature described in my said patent, parts of the buffer being broken away to show the spindle extending therethrough.

By reference to my above mentioned patent it will be seen that machines of this nature comprise one or more cylindrical rotatable screens which are carried by pivoted arms or frames which, in operation, are caused to vibrate by means of a cam or cams to effect the agitation of the pulp taken up by said screens to facilitate the passing of portions of said pulp through the screens. In order to reduce the shock of such vibration on the frame of the machine buffers have been located between said arms to yieldingly resist and limit the return movement of said arms toward their cooperating cam. As the buffers, so placed, are inaccessible on account of the surround-

ing mechanism and, when including rubber or other elastic cushioning material, are subject to deterioration from oil accumulating thereon from the bearings of such mechanism it has occurred to me to place such buffer devices at parts of the machine where such devices are readily accessible for inspection and renewal and, at the same time, to improve the construction of such devices.

As shown in the drawings the frame 5 is similar to the frame 5 of said patent, and is similarly provided with the rocker arm 9 furnished with the cam-face block 12 against which throw cam 16 acts intermittently to throw outward the lower end of said arm 9. Frame 5 has secured thereto the plate 6 having the stop 7 which plate 6 is located at a point on said frame toward which arm 9 is moved by cam 16. Arm 9 has a transverse bore which is in alignment with the bore 8 of stop 7 and secured in said bore of arm 9 is the spindle 10 having the shoulder 11 and screw threaded ends which are respectively provided with the nuts 13, 14 and with the lock nut 15. On said spindle 10 between the nut 14 and the stop 6 are the wear resisting plates 17 and 18 having located therebetween the rubber buffer 19 and, between plate 17 and nut 14, the anvil or shock receiving member 20 which receives the blow from nut 14 on the retractive movement of arm 9 and its spindle 10 while the elastic buffer 19 cushions said shock. By means of such construction I am enabled to place this buffer device in a position where its parts are always accessible for renewal. By simply removing the nuts 14 and 15 the anvil 20, plate 17 and the buffer 19 may be removed and the buffer, if worn, can be replaced by a new buffer and the plate 17 anvil 20 and nuts 14, 15 replaced. When cam 16 acts against block 12 arm 9 is moved toward the stop 7 and spindle 10 slides in the bore of said stop while on the reacting movement of arm 9 the nut 14 strikes the anvil 20 and the impact of such blow is cushioned by the buffer 19 and is resisted by the stop 7.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

In a pulp screening machine, the combination with a frame having a stop furnished with a bore, of an arm carried by said frame and having a transverse perforation, a spin-

dle mounted in said perforation and slidable in the bore of said stop, an elastic buffer on said spindle, wear plates mounted at the ends of said buffer, an impact receiving member mounted on said spindle and bearing against one of said wear plates and a nut adjustable on said spindle and adapted

to limit the reverse movement of said spindle by contact with said impact member, substantially as described.

OTTO WANDEL.

Witnesses:

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