No. 652,665. Patented June 26, 1900.

E. C. BURR & J. C. H. STUT.

PULP PRESS.

(Application filed Nov. 27, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

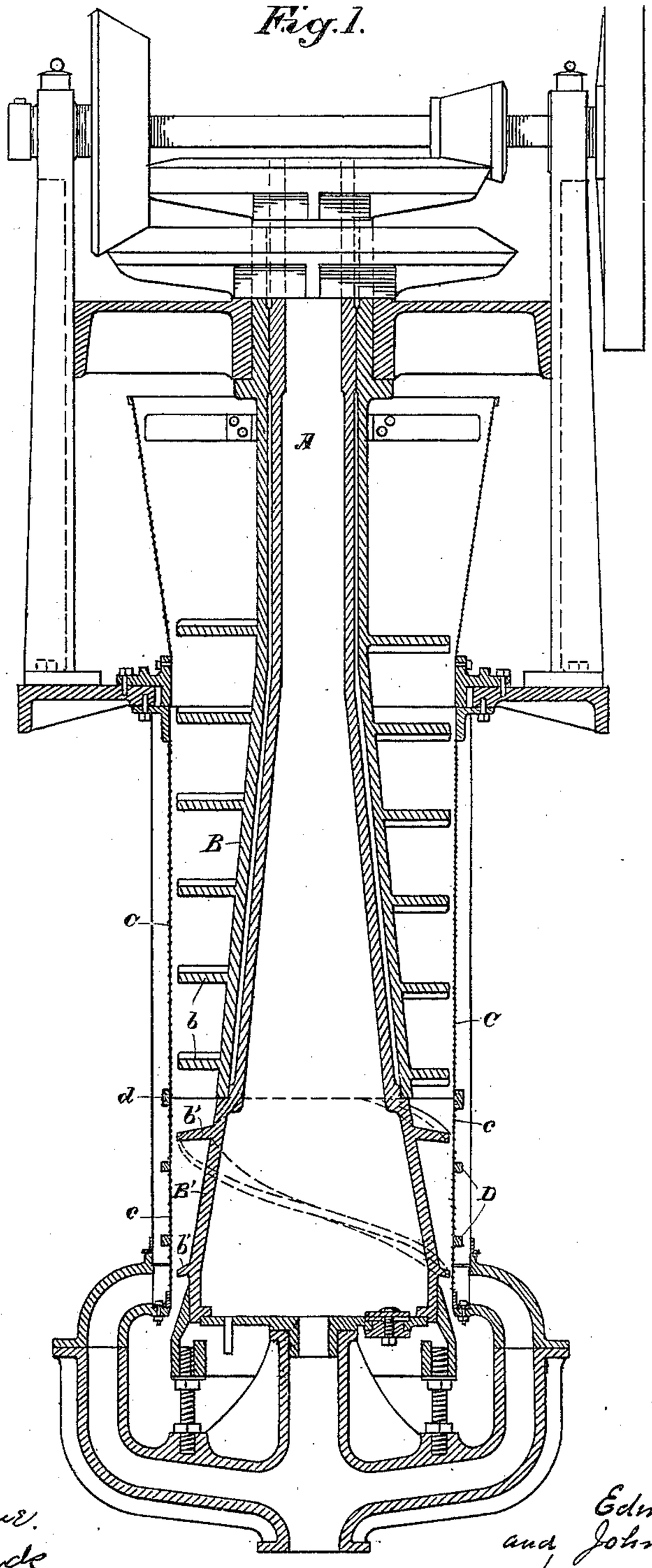

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Fig. 2.

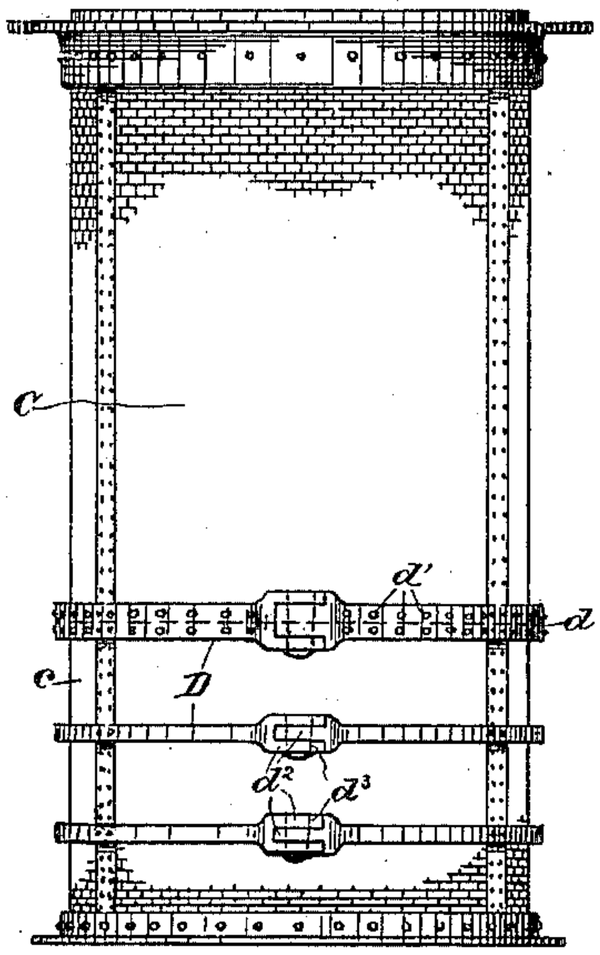
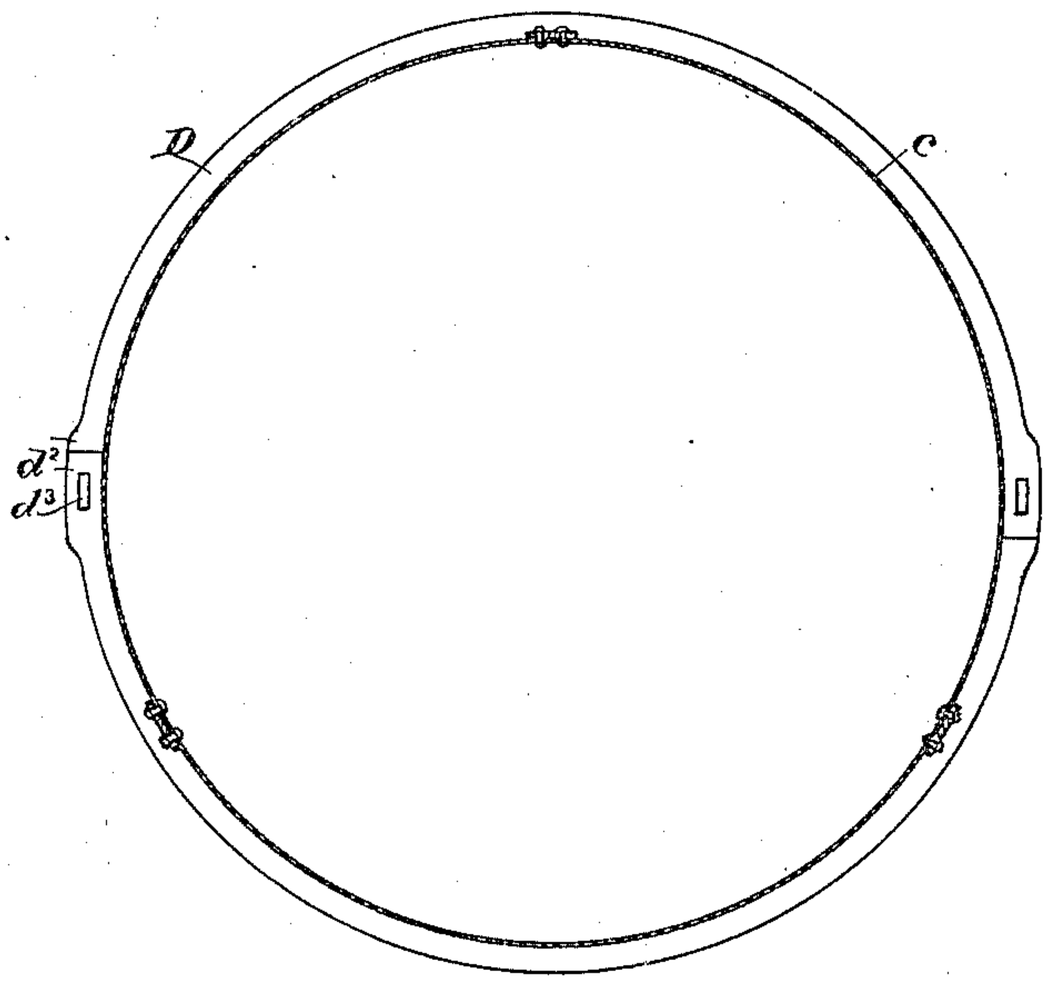


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDMUND C. BURR, OF SAN FRANCISCO, AND JOHN C. H. STUT, OF OAKLAND, CALIFORNIA, ASSIGNORS OF ONE-THIRD TO JOHN W. ATKINSON, OF SANTA MARIA, CALIFORNIA.

PULP-PRESS.

SPECIFICATION forming part of Letters Patent No. 652,665, dated June 26, 1900.

Application filed November 27, 1899. Serial No. 738,410. (No model.)

To all whom it may concern:

Be it known that we, EDMUND C. BURR, residing in the city and county of San Francisco, and JOHN C. H. STUT, residing at Oakland, county of Alameda, State of California, citizens of the United States, have invented certain new and useful Improvements in Pulp-Presses; and we do hereby declare the following to be a full, clear, and exact description of the same.

Our invention relates to pulp-presses used in sugar factories; and it consists in an improvement in the screens thereof, the object of which is to save cost by providing for the ready removal of that portion of the screen which is subjected to most wear and the insertion of a corresponding fresh or unworn portion, thus saving for continued use that large portion of the costly steel screen which does not wear out, but which under present conditions has to be thrown away.

Referring to the accompanying drawings, Figure 1 is a vertical sectional view of a pulp-press, showing our improved screen. Fig. 2 is an elevation of our improved screen. Fig. 3 is a horizontal section of same.

A is a pulp-press of the usual kind, provided with separately-revoluble cones B B′, having the spirally-directed lugs, flanges, or threads *b* and *b′*; by which the pulp is gradually squeezed harder and harder in the downwardly-diminishing space lying between the cones and the exterior screen C. This screen is made of steel and is quite costly. Its lower portion, where the greatest pressure comes, is braced by exterior rings D; but the wear is so great that from about where the threads or flanges of the two cones adjoin the screen shortly becomes useless, and as heretofore the whole screen has been made integral it has been necessary to cast it aside at considerable loss. To remedy this, we make that portion of the screen designated by *c*, which is subjected to the greatest wear, a separate section, and in order to make it easily removable and replaceable and still have it strongly secured to and practically integral with the upper portion of the screen we make one of the rings D (that one designated by *d*) wide enough to overlap the adjacent portions and to receive rivets *d′* from each portion. The removable portion *c* of the screen and the main portion abut joints, and both being secured to the rings are held together as one, and still the lower portion can be removed when worn and an unworn similar portion substituted, while the main portion remains for a much longer use, of which it is fully capable, for it is not subjected to much wear.

We have found it best to make the lower portion *c* of the screen in two or more sections, divided as sectors, so that any specially-worn part may be removed. When so divided, the bracing or holding rings D are made in corresponding sections, the adjacent ends of said sections being tongued and grooved together, as at d^2, and receiving a wedge-key d^3. They are thus tightened together and may be readily separated to separate the screen-sections.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a pulp-press, the screen exterior or shell thereof, having a separable, removable portion where subjected to greatest wear, said portion abutting the remainder of the screen, and a ring overlapping the abutting edges, and secured to each.

2. In a pulp-press, the screen exterior or shell thereof, having a separable, removable portion where subjected to greatest wear, said portion being divided into sector-sections, rings encircling the sections of said separable removable portion, and composed of separable sections having detachable connections between adjoining ends, one of said rings overlapping the abutting edges of the separable, removable portion, and the remainder of the screen, and secured to each.

3. In a pulp-press, and in combination with the independently-revoluble cones, having the spiral flanges or threads, the screen exterior or shell, having a separable, removable lower portion, and an encircling ring overlapping the abutting edges of said lower portion and the remainder of the screen, and secured to each.

4. In a pulp-press, and in combination with the independently-revoluble cones, having spiral flanges or threads, the screen exterior or shell having a separable, removable lower portion, divided into separable sector-sections, and rings encircling said sections and divided into separable sections, having detachable connections, one of said rings overlapping the abutting edges of the separable, removable portion and the remainder of the screen, and secured to each.

In witness whereof we have hereunto set our hands.

EDMUND C. BURR.
JOHN C. H. STUT.

Witnesses:
D. B. RICHARDS,
WALTER F. VANE.