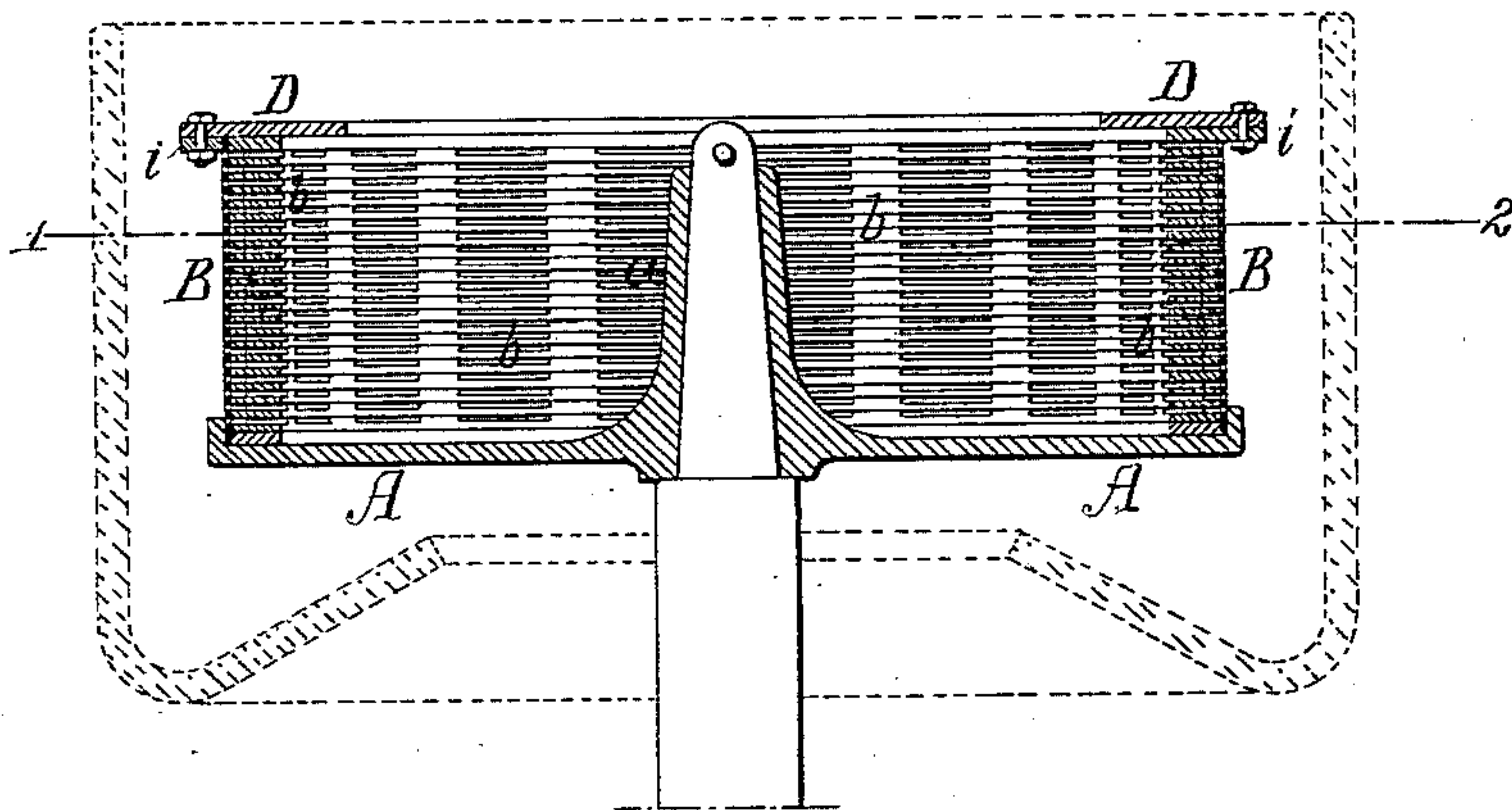


A. H. BLAISDELL.  
Centrifugal-Machine.

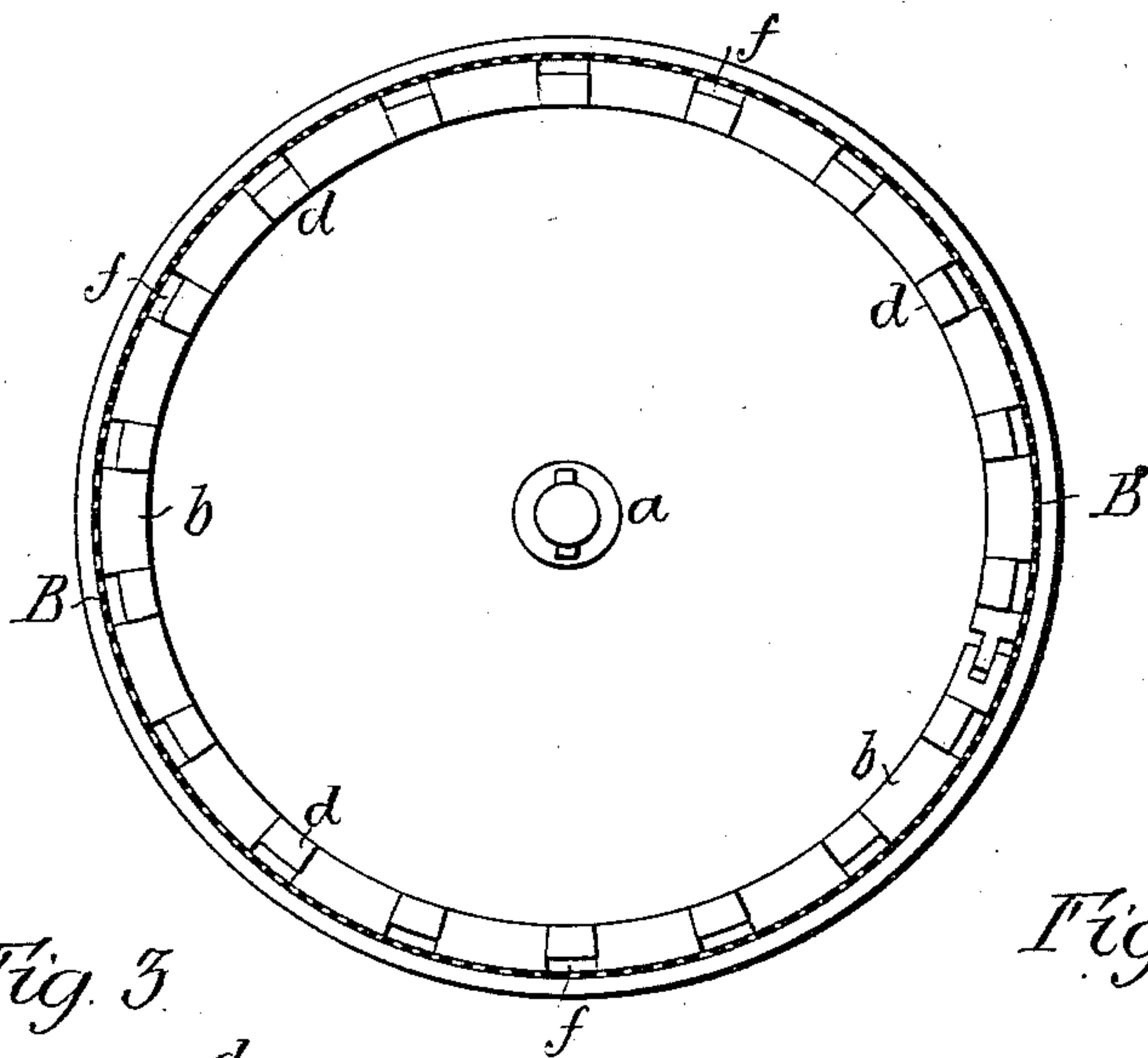
No. 226,271.

Patented April 6, 1880.

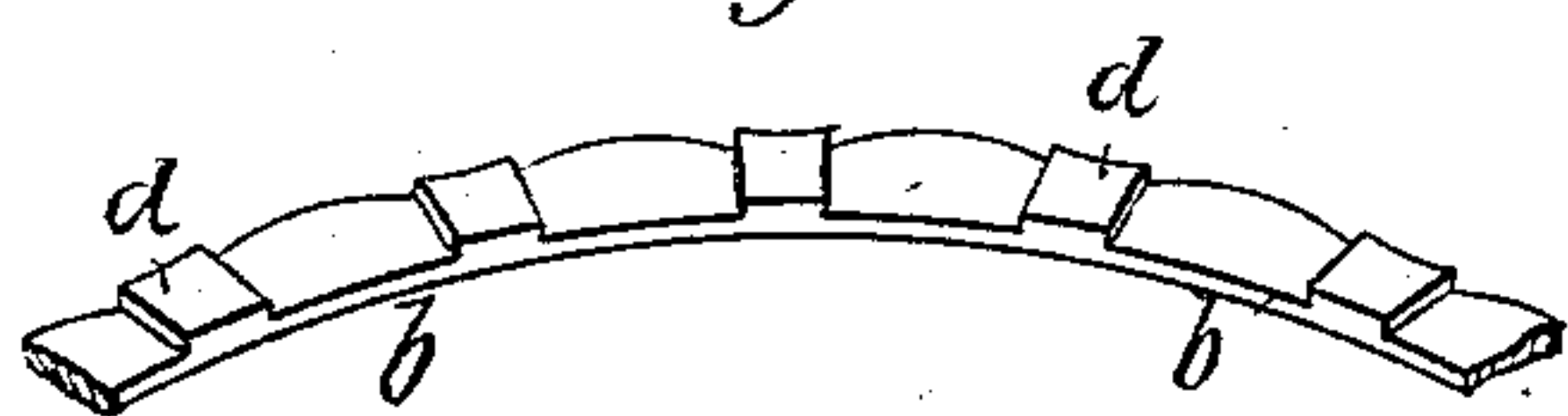
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses  
Henry Cowson Jr.  
Harry Smith

Inventor  
Arlond H. Blaisdell  
by his Attorneys

# UNITED STATES PATENT OFFICE.

ARLOND H. BLAISDELL, OF VINELAND, NEW JERSEY, ASSIGNOR TO JAMES  
H. WELLS, OF SAME PLACE.

## CENTRIFUGAL MACHINE.

SPECIFICATION forming part of Letters Patent No. 226,271, dated April 6, 1880.

Application filed August 25, 1879.

*To all whom it may concern:*

Be it known that I, ARLOND H. BLAISDELL, of Vineland, Cumberland county, New Jersey, have invented a new and useful Improvement in Centrifugal Machines, of which the following is a specification.

The object of my invention is to provide the basket of a centrifugal machine with a screen of a more durable character than usual—an object which I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of the basket of a centrifugal machine provided with my improved screen; Fig. 2, a sectional plan on the line 1 2; and Figs. 3 and 4, perspective views of portions of rings, showing modifications of my invention.

The ordinary basket of a centrifugal machine consists of a bottom plate, A, with hub *a*, a series of cylindrical screens of wire-gauze or perforated plate, and an annular flange at the top.

Screens of the character described soon become worn out and have to be replaced, and it is with the view of overcoming this objection that my invention has been devised.

Another plan of making screens has been to make a spiral slit in a hollow cylinder, so as to reduce it to the condition of a coil held together by exterior ribs; but this is a very expensive plan, and the screen could not be easily repaired should any accident occur to one of the convolutions.

I make the screen of a series of thin sheet-metal rings, *b*, placed one on top of another, with suitable intervening spaces, the latter being produced in the present instance by forming on one side of each ring lugs *d*.

The rings *b* are fitted within the outer shell, B, of the basket, against which the outer edges of the said rings bear, an annular plate, D, bolted to a flange, *i*, on the upper edge of the shell B, serving to secure the rings in position vertically.

When the machine is in operation the liquid extracted from the contents of the basket

passes through the spaces between the rings, and thence through the perforations of the shell B into the outer casing, (shown by dotted lines,) by which the liquid is collected and conveyed to the point of discharge.

The discharge from the basket is facilitated by notching or recessing the outer edges of the rings *b*, so as to form spaces adjacent to the shell B.

Instead of having notches *f*, the outer edges of the rings may be waved, as shown in Fig. 3, and the lugs *d* may be dispensed with by forming radial channels directly in the rings, as shown in Fig. 4.

As the edges of the rings are presented to the action of the contents of the basket, such rings will resist the wear to which they are subjected for a much longer time than simple screens of wire-gauze or perforated plate.

Each ring is, by preference, severed at one point in its circumference, so that they may be expanded until they fit closely to the surrounding shell or casing.

It will be seen that if any of the rings should be damaged they can be easily removed and replaced with new ones.

I claim as my invention—

1. The within-described screen for centrifugal machines, said screen consisting of a number of separate rings arranged one upon the other, with intervening spaces or channels, all substantially as set forth.

2. The combination of the shell B of the basket with the rings *b*, split as described, so as to be adapted to said casing or shell, as set forth.

3. The combination of the shell B of the basket with the rings *b*, having notches or recesses *f*, as set forth.

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

ARLOND H. BLAISDELL.

Witnesses:

ALEXANDER PATTERSON,  
HARRY SMITH.