

A. CASSIRER.
CENTRIFUGAL DRYING MACHINE.
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1,087,528.

Patented Feb. 17, 1914

Fig. 1.

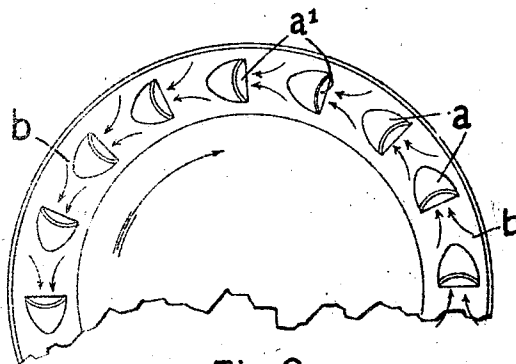
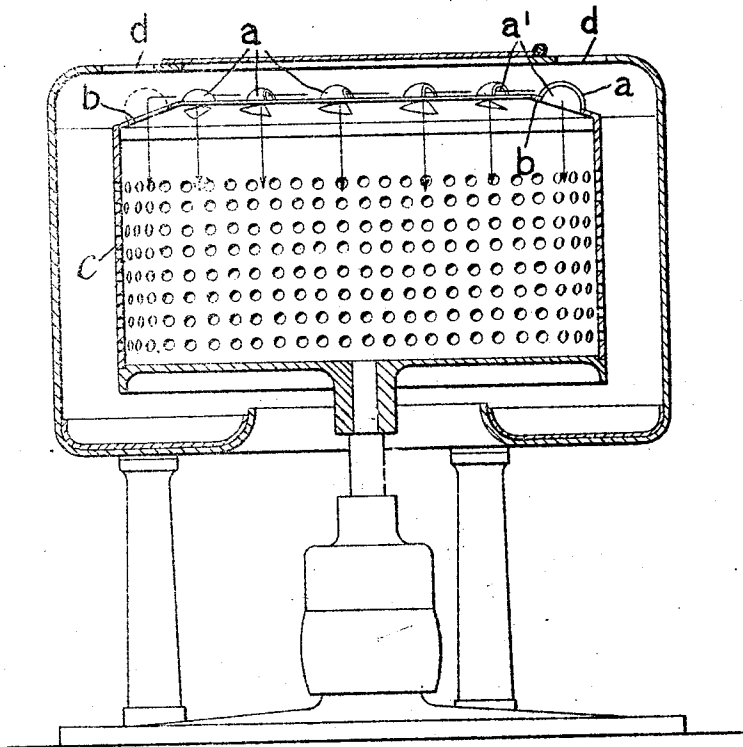


Fig. 2.

Witnesses.

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ALFRED CASSIRER, OF MUNICH, GERMANY.

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1,087,528.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED CASSIRER, a subject of the Emperor of Germany, residing at Munich, Germany, have invented a certain new and useful Centrifugal Drying-Machine, of which the following is a specification.

This invention relates to a centrifugal machine, designed particularly for drying and aerating wet clothes or other articles, fitted with scoops or cups to convey air to the material in the centrifugal; and it consists in arranging the scoops or cups on an inwardly projecting upper part of the receptacle or basket. The scoops or cups arranged in that way catch the air as the basket rotates and convey it to the inside of the basket, thus subjecting the air already in the basket to a comparatively strong pressure, under which it not only thoroughly penetrates the clothes or other articles, and thereby dries and aerates same, but also exerts on the articles a vertical pressure which overcomes the tendency of the latter to rise, to a sufficient degree to prevent same working over the edge of the basket.

In the embodiment of the invention shown on the drawing, the basket *c* intended to receive the clothes or washed articles is fitted, at the upper part thereof, with an inwardly projecting annular rim or flange *b*. On that rim are the scoops or cups *a* and in the example selected for illustration these are pressed or bent out of the material of which the rim *b* is formed. The plane of each inlet opening *a'* lies radially with respect to the axis of the basket so that, as the basket rotates, the air is caught up approximately as indicated by the pairs of little arrows drawn in Fig. 2. As it enters the basket the air will assume a direction approximately as shown by the arrows drawn in Fig. 1, and it will in the first place exert pressure on the clothes or other articles and will then pass through same and the perforated wall of the basket into the annular space between the basket and the outer casing. From the said annular space the air passes to the bottom of

the outer casing and issues through a central opening therein, through which opening the shaft, upon which the basket is mounted, passes. Fresh air is continually entering the outer casing through the openings *d* and is immediately taken up by the scoops *a* and forced through the clothes and discharged as aforesaid. Owing to the cups being rotated very rapidly, they draw in the air with corresponding force and so exert an energetic suction effect on the openings *d*.

Having now fully described my invention what I claim and desire to secure by Letters Patent is:—

1. In a centrifugal machine, a receptacle rotatably mounted, and having a perforated wall, and provided at its upper end with an inwardly projecting, annular flange having openings, cups carried by said flange, adapted to direct a current of air into said receptacle, and means to rotate said receptacle.

2. In a centrifugal machine, a receptacle rotatably mounted and having a perforated wall, and provided with an open end, the open end of said receptacle having an inwardly projecting, annular flange provided with means to direct a current of air into said receptacle, an outer casing within which said receptacle is mounted, and provided with inlet and discharge ports, and means to rotate said receptacle.

3. In a centrifugal machine, a receptacle rotatably mounted, and having a perforated wall, and provided with an open end, said receptacle being provided in proximity to said open end with an inwardly projecting, annular flange, cups mounted on said flange adapted to direct the current of air there-through into the interior of said receptacle, an outer casing surrounding said receptacle, and having a plurality of air inlets in the top thereof above said cups, and provided with a central air outlet in the base thereof, and means to rotate said receptacle.

4. In a centrifugal machine, an outer casing having a plurality of air inlets in the top thereof, and provided with a centrally located removable cover in said top, and a

discharge port in said bottom, a receptacle rotatably mounted within said outer casing and having a perforated wall, and having its lower end closed and its upper end open, and provided at its upper end with an inwardly projecting flange having openings therethrough, and means to deflect a current of air through said openings on the rotation

of said receptacle, and means to rotate said receptacle.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED CASSIRER.

Witnesses:

JOHANNA STERN,
RICHARD LEMP.