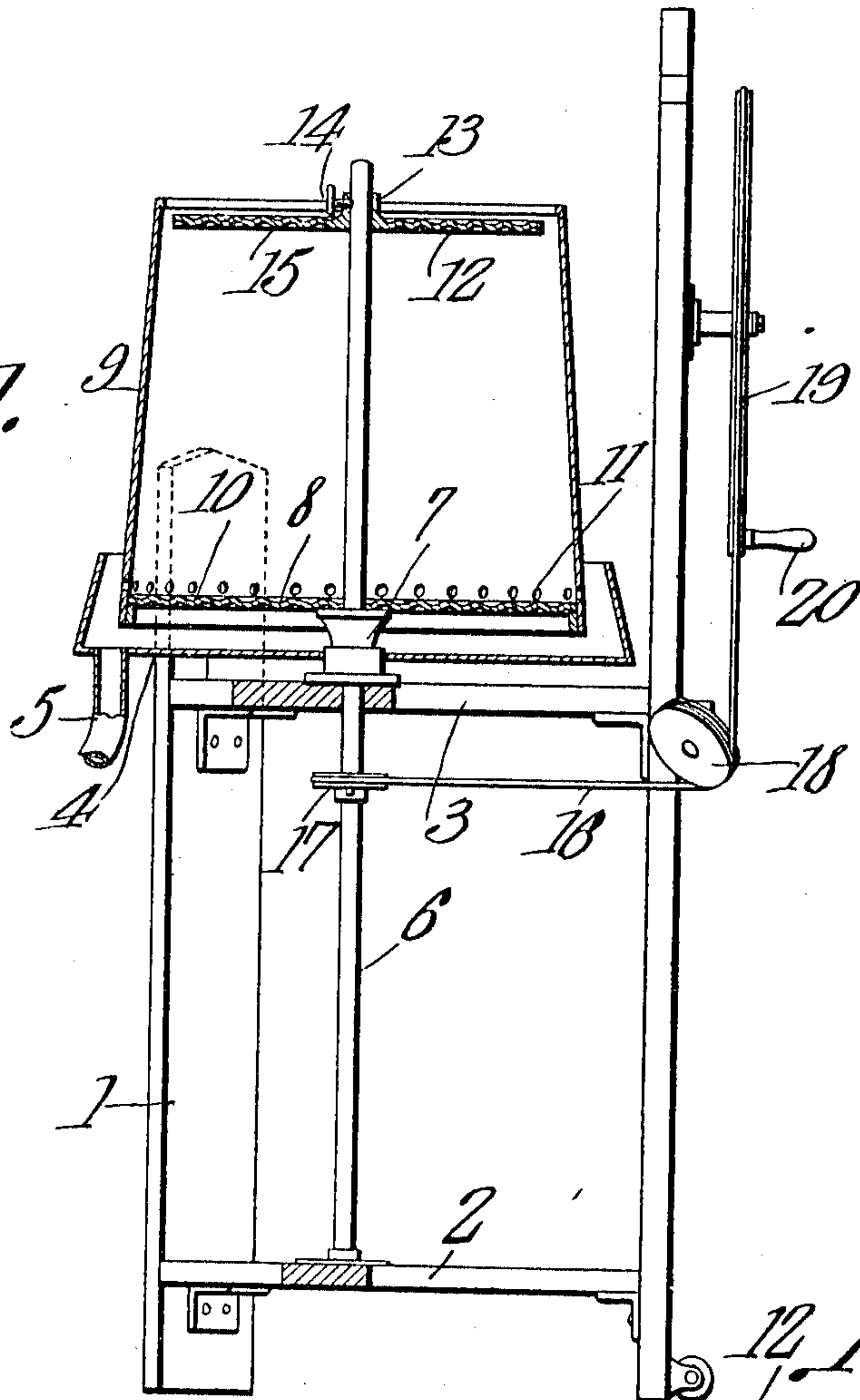


F. A. DINSMORE.  
CENTRIFUGAL CLOTHES DRIER.  
APPLICATION FILED APR. 6, 1910.

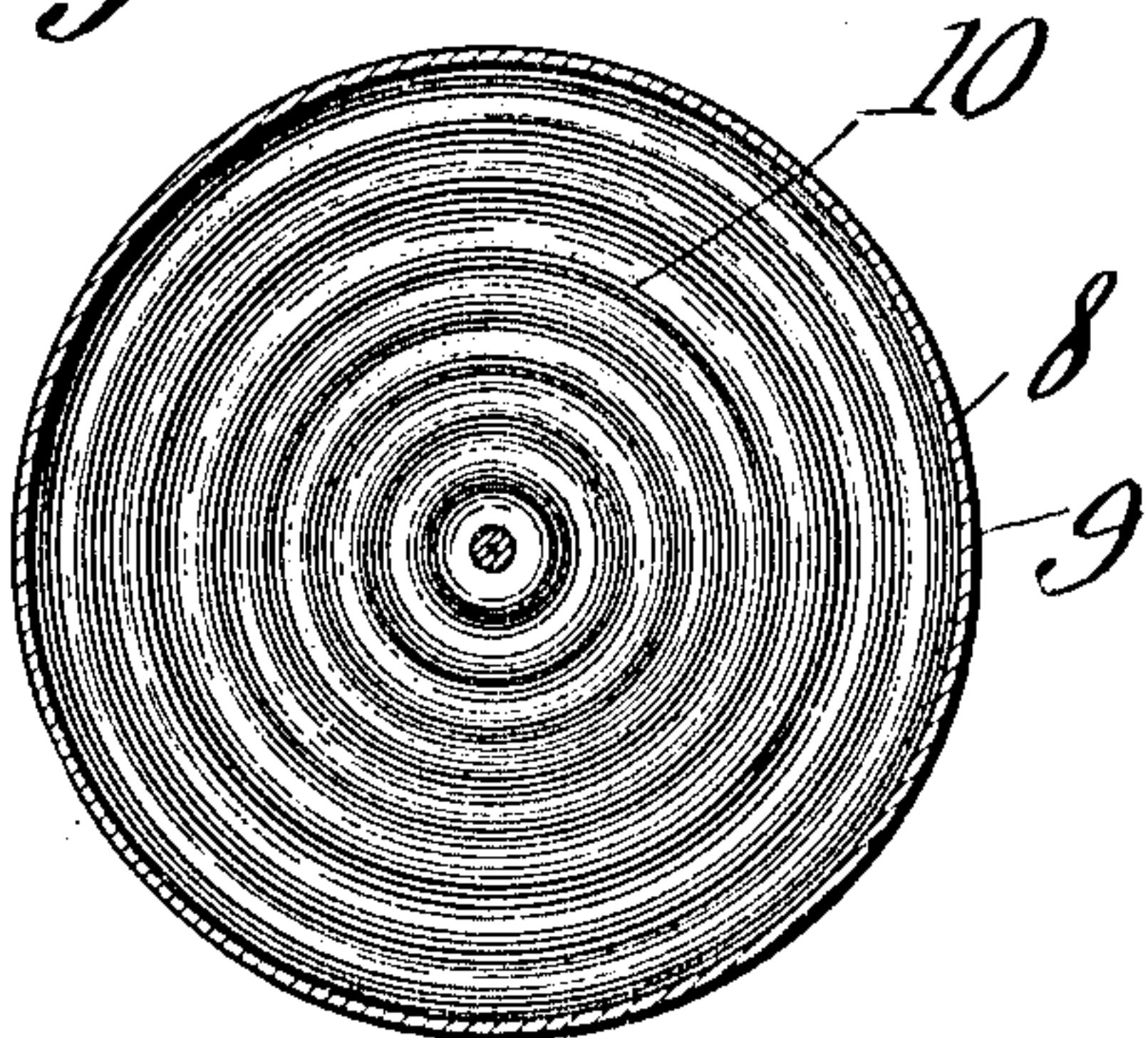
970,022.

Patented Sept. 13, 1910.

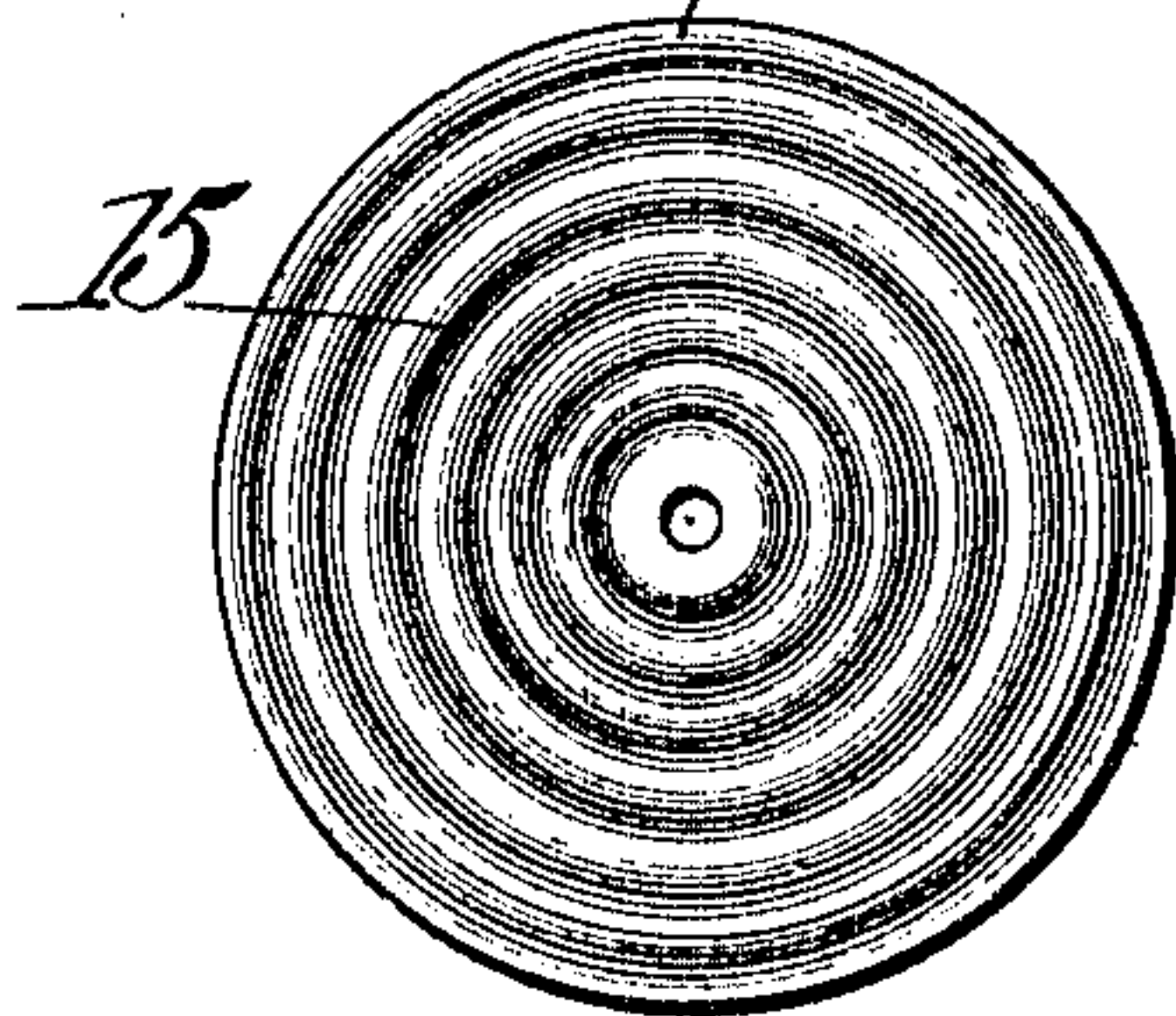
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses  
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# UNITED STATES PATENT OFFICE.

FRANK A. DINSMORE, OF FREDONIA, NEW YORK.

CENTRIFUGAL CLOTHES-DRIER.

970,022.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed April 6, 1910. Serial No. 553,686.

*To all whom it may concern:*

Be it known that I, FRANK A. DINSMORE, a citizen of the United States, residing at Fredonia, in the county of Chautauqua and State of New York, have invented a new and useful Centrifugal Clothes-Drier, of which the following is a specification.

This invention relates to centrifugal clothes driers and is more particularly designed as an improvement upon the structure disclosed in Patent No. 945,921, issued to me on January 11, 1910. In devices of this character such as heretofore devised it has been difficult to hold the wet fabrics properly centered within the rotating receptacle because, unless the weight of the fabrics is accurately equalized upon the bottom of the receptacle, the said fabrics will be thrown off center as the receptacle rotates at a high speed and considerable vibration of the machine will thus be produced.

One of the objects of the present invention is to provide simple means whereby the fabrics can be held against shifting off center within the receptacle and vibration of the machine is thus eliminated.

With this and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a vertical section through a clothes drier having the present improvements embodied therein. Fig. 2 is a horizontal section through the receptacle or fabric holding basket of the machine and showing the corrugated bottom thereof. Fig. 3 is a bottom plan view of the holding disk.

Referring to the figures by characters of reference 1 designates supports connected adjacent their lower ends by one or more cross strips 2 and additional cross strips 3 connect the said supports at points above the strip 2. The receiver 4 is fixedly mounted between the supports 1 and above the strips 3 and has an outlet 5 extending from the bottom thereof.

A shaft 6 is mounted upon the strips 2 and 3 and extends through the center of the receiver 4. This shaft has an enlargement

7 thereon within the receiver and to which is secured the bottom 8 of a frusto-conical basket 9. Said bottom is formed with concentric circular corrugations such as have been indicated at 10, said corrugations being also concentric with the center of the basket and being preferably arranged with their uppermost portions in the same plane. The upper end of the basket is open and the shaft 6 extends a short distance thereabove. Apertures 11 are formed within the wall of the basket and close to the corrugated bottom 8 thereof, these apertures being arranged below the level of the upper end of the receiver 4.

A holding disk 12 is removably mounted upon the shaft 6 and within the basket 9, this disk being provided with an upstanding central boss 13 into which projects a set screw 14 adapted to bind upon the shaft and hold the disk fixed relative thereto. The said disk is formed with a plurality of concentric corrugations such as have been indicated at 15. The shaft 6 may be operated in any suitable manner, as by means of a cord or belt 16 extending partly around a pulley 17 secured to the shaft, opposed stretches of the said cord or belt being mounted on inclined sheaves 18 and the said belt extending over a drive wheel 19 which may be provided with a handle 20.

In using the machine herein described the disk 12 is removed from shaft 6 and the wet fabrics to be dried are placed within the basket 9 and distributed as evenly as possible around the shaft 6. The disk 12 is then placed on the upper end portion of the shaft and pushed downward thereon until its corrugations tightly engage the fabrics. The disk can then be locked by means of the set screw 14. It will thus be seen that the body of fabrics will be firmly clamped between two surfaces each of which has concentric corrugations and it has been found by actual practice that, when the basket is rapidly rotated, the said corrugations will operate to maintain the fabrics properly centered throughout the operation and the machine will not at any time lose its proper balance and vibrate to an objectionable extent.

It is to be understood of course that various changes may be made in the construction and arrangement of the parts without



departing from the spirit or sacrificing any of the advantages of the invention as defined in the appended claims.

What is claimed is:—

5 1. A centrifugal clothes drier including an apertured basket having concentric corrugations on the bottom thereof the upper portions of which are disposed in the same plane, and means revoluble with the basket  
10 for holding fabrics upon said bottom.

2. A centrifugal clothes drier including a revoluble basket having apertures in the wall thereof, the bottom of said basket having concentric annular corrugations the upper portions of which are located in the  
15 same plane, and means adjustably and removably mounted in the basket for holding fabrics upon said bottom.

3. A centrifugal clothes drier including an  
20 apertured basket mounted for rotation, and means adjustably mounted within the basket for holding fabrics upon the bottom of said basket, said means including concentric annular corrugations.

25 4. A centrifugal clothes drier including a revoluble apertured basket, and means removably and adjustably mounted within the basket for holding fabrics upon the bottom of the basket, said means including concentric annular corrugations for engaging the  
30 fabrics.

5. A centrifugal clothes drier including an apertured basket mounted for rotation, said  
35 basket having concentric corrugations on the bottom thereof, and means adjustably

mounted within the basket for holding fabrics upon said corrugations, said means including concentric corrugations for engaging the fabrics.

6. A centrifugal clothes drier including a  
40 basket mounted for rotation, said basket having concentric corrugations upon the bottom thereof, a central shaft revoluble with the basket, and a fabric holding device adjustably mounted on the shaft and having  
45 concentric fabric engaging corrugations.

7. A centrifugal clothes drier including a basket mounted for rotation, a shaft extending through and revoluble with the basket, said basket having concentric corrugations  
50 upon the bottom thereof, and a disk adjustably and removably mounted upon the shaft and having concentric fabric engaging corrugations.

8. A centrifugal clothes drier including a  
55 basket mounted for rotation, said basket having concentric corrugations on the bottom thereof, a shaft extending concentrically within and revoluble with the basket, a disk adjustably mounted on the shaft and  
60 having concentric fabric engaging corrugations, and means for securing the disk to the shaft.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

FRANK A. DINSMORE.

Witnesses:

GEO. D. FOSTER,

LOUIS L. THRASHER.