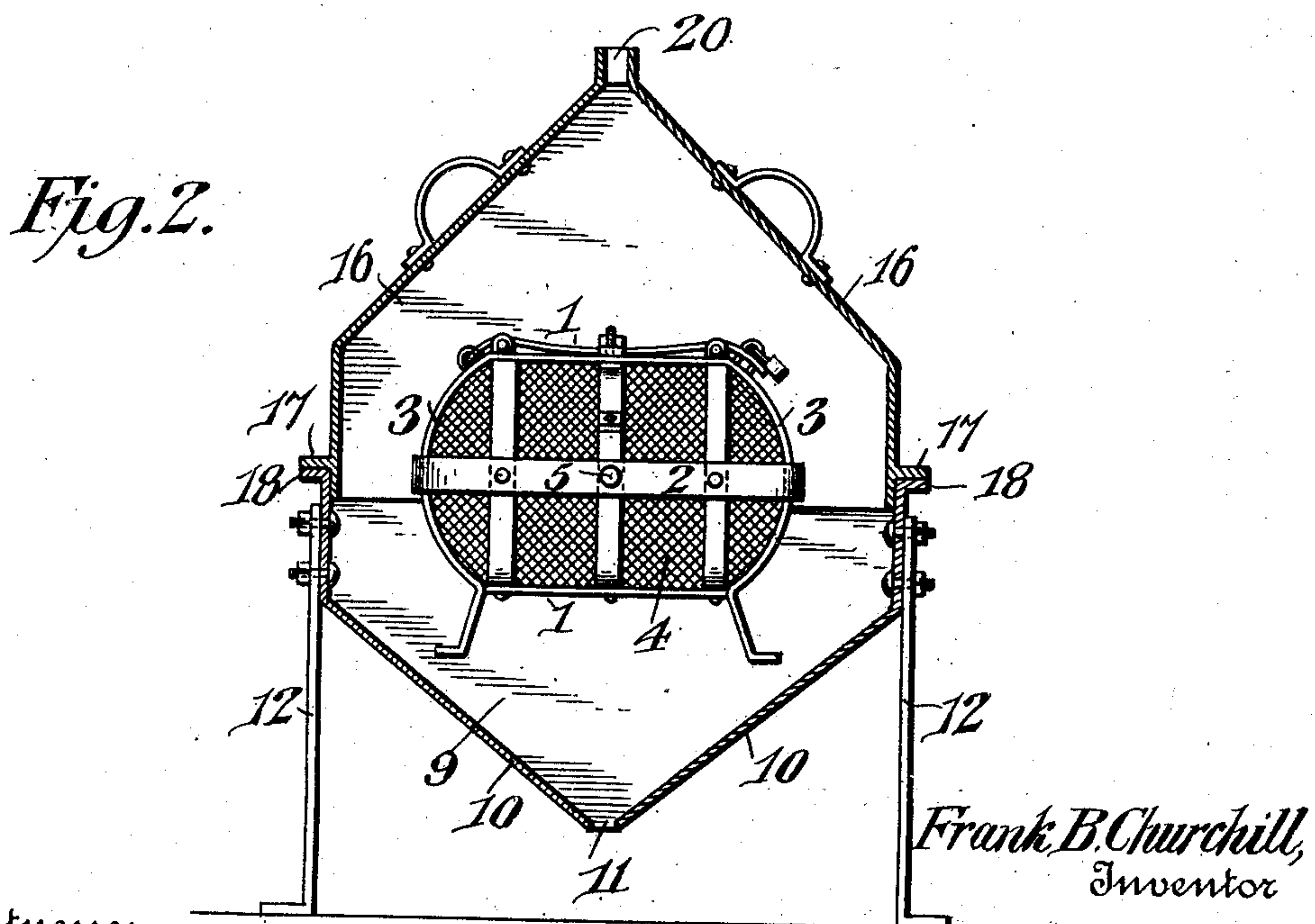
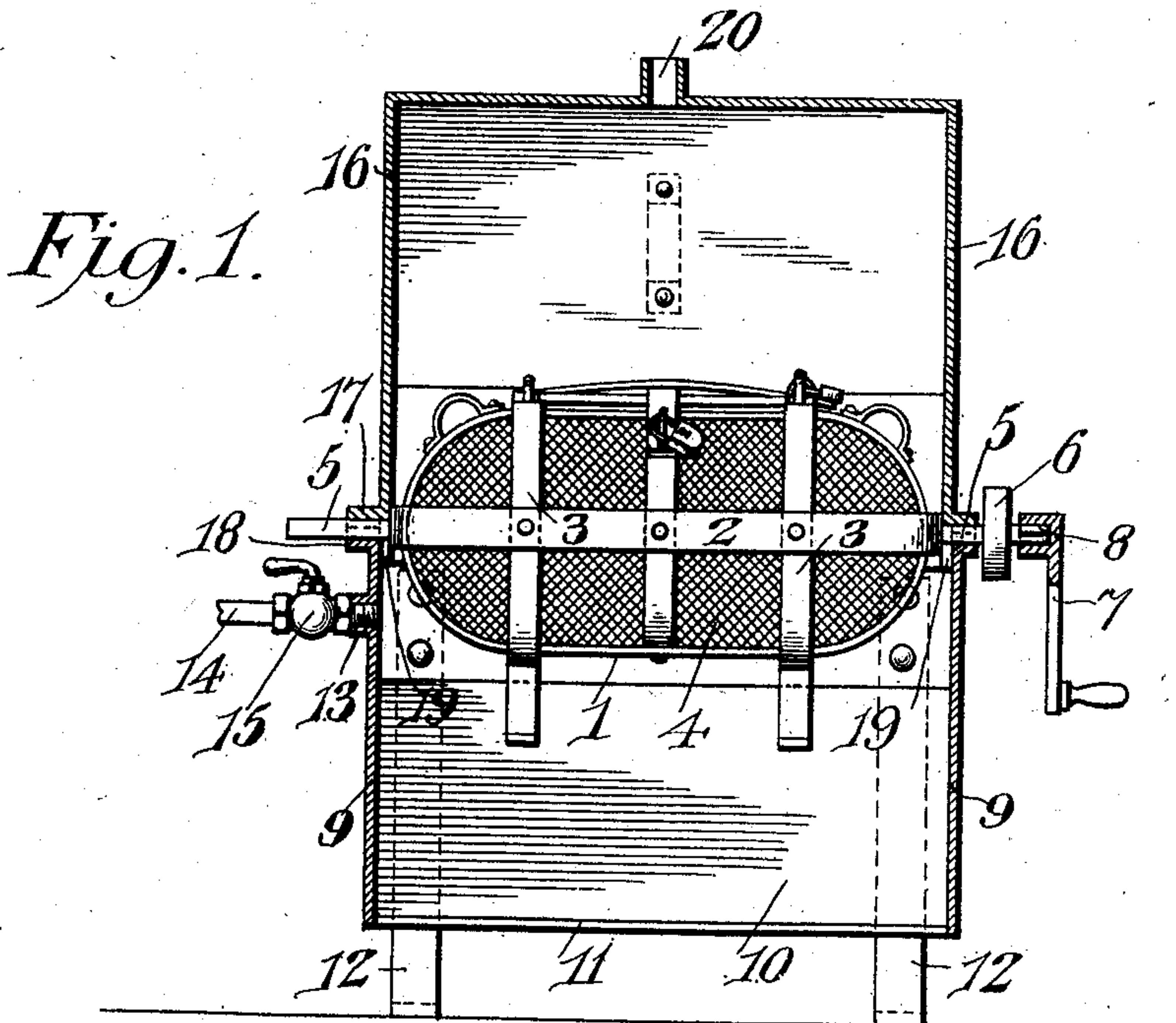


F. B. CHURCHILL.
CURRENCY DRIER.
APPLICATION FILED JUNE 11, 1910.

994,246.

Patented June 6, 1911.



Frank B. Churchill,
Inventor

Witnesses
Jas. E. McLaughlin
R. H. Bishop

By *E. G. Siggers*
Attorney

UNITED STATES PATENT OFFICE.

FRANK B. CHURCHILL, OF SHELBYVILLE, INDIANA.

CURRENCY-DRIER.

994,246.

Specification of Letters Patent.

Patented June 6, 1911.

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To all whom it may concern:

Be it known that I, FRANK B. CHURCHILL, a citizen of the United States, residing at Shelbyville, in the county of Shelby and State of Indiana, have invented a new and useful Currency-Drier, of which the following is a specification.

This invention relates to improvements in driers, and has for its object the provision of means whereby currency may be quickly dried after the same has been washed in the manner disclosed in an application for patent on washing machines, filed by me simultaneously herewith.

The present invention consists in providing means whereby the moisture may be thrown off from the money by centrifugal action while the same is subjected to the influence of a current of hot air whereby the drying operation may be accomplished rapidly and easily.

An apparatus embodying my invention is illustrated in the accompanying drawings, and the invention consists in certain novel features of the same, which will be hereinafter first fully described and then more particularly pointed out in the appended claims.

In the drawings,—Figure 1 is a central vertical longitudinal section of a drier embodying my present improvements. Fig. 2 is a transverse vertical section.

The drum or basket 1 is constructed as disclosed in detail in my above mentioned application for patent and comprises a rigid frame consisting of longitudinal bars 2 and transverse bars 3 and a foraminous fabric 4 secured to the said bars. The basket or drum is provided at its ends with pins or journals 5 and on one of said journals is secured a pulley 6 around which a driving belt may be engaged to impart rotary motion to the drum. Where an engine or other form of motor is not available, the drum may be rotated manually by engaging a suitable crank handle 7 over the angular end 8 of the journal, as will be readily understood. This foraminous drum or basket, containing the bank notes or other currency which have been washed, is removed from the washing machine and mounted in the side walls 9 of a housing having an inclined bottom 10 which is provided along its medial longitudinal line with a slot 11 extending the full length of the housing and forming a discharge opening for the water

thrown off from and through the basket or drum. It will be observed that the bottom 10 consists of two members converging downwardly to the slot 11 so that the water may readily drain from the housing. The device may be arranged over any convenient form of receptacle or conduit by which the water escaping through the slot 11 may be collected and carried off. The housing is supported upon any convenient form of legs or standards 12 and in one end is provided with a nipple 13 in which is secured the end of a hot air pipe 14 provided with a cut-off valve 15 through which hot air may be admitted to the interior of the housing in position to be discharged upon the under side of the drum or basket 1. The journals 5 of the drum or basket are fitted in open notches in the upper edges of the side walls 9 and are held in said notches by a cover or hood 16 which is provided near its lower edge with an outstanding flange 17 adapted to rest upon a similar flange 18 at the upper edge of the housing, the lower end of the hood or cover fitting snugly within the housing and being formed with notches 19 to engage the journals 5, as will be readily understood. The weight of the cover will serve to hold it down upon the journals of the drum or basket and the basket will thereby be held in proper relation to the housing and the cover. The top of the cover converges upwardly to a central vent 20 through which the hot air may escape after passing through the drum and the currency therein.

The operation will be readily understood.

The basket or drum containing the washed currency is fitted upon the walls of the housing and the cover placed over the same, after which the valve 15 is opened and the drum rotated, as described. The rapid rotation of the drum will cause the moisture to pass off therefrom under the centrifugal action while the hot air rising through the drum will accelerate the drying and will also tend to remove from the notes any wrinkles which may have formed therein during the washing. The hot air will escape through the vent 20, while the extracted water will pass off through the slot 11, and in this way I avoid the formation of vapor which would tend to vitiate the air of the work room. When the bills and notes have been thoroughly dried, the drum is removed and opened so as to permit the bills and notes to be again placed in use.

My device is exceedingly simple in its construction and operation and its many advantages are believed to be obvious.

Having thus described my invention, what I claim is:—

1. A currency drier comprising two housing members separable along a median line, one member being provided at opposite points with supporting journal members and the other housing member being provided at like points with cap journal members matching the first named journal members, the housing member carrying the cap journal members being smaller in cross section than and telescoping for a distance into the other housing member.

2. A currency drier comprising two housing members separable along a median line, one member being provided at opposite points with supporting journal members, and the other housing member being provided at like points with cap journal members matching the first named journal members, the housing member carrying the cap journal members being smaller in cross section than and telescoping for a distance into the other housing member, the two housing members where telescoping being provided with meeting flanges.

3. A currency drier comprising two members each carrying journal members matching those of the other to constitute journal bearings on opposite sides of the assembled housing members, one housing member having downwardly directed approaching walls and an opening longitudinal of the housing member to which the downwardly directed approaching walls lead, and the other housing member having upwardly directed ap-

proaching walls with an escape port at the junction of said walls.

4. A currency drier comprising two members each carrying journal members matching those of the other to constitute journal bearings on opposite sides of the assembled housing members, one housing member having downwardly directed approaching walls and an opening longitudinal of the housing member to which the downwardly directed approaching walls lead, and the other housing member having upwardly directed approaching walls with an escape port at the junction of said walls, the first named housing member being provided with supporting feet.

5. A currency drier comprising two readily separable members each carrying journal members matching those of the other to constitute journal bearings on opposite sides of the assembled housing members, one housing member having downwardly directed approaching walls and an opening longitudinal of the housing member to which the downwardly directed approaching walls lead, and the other housing member having upwardly directed approaching walls with an escape port at the junction of said walls, and means for the introduction of heated air into the drier through the walls of the first named housing member at a point below the journal bearings in the housing.

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

FRANK B. CHURCHILL.

Witnesses:

JOHN H. SIGGERS,
R. W. BISHOP.