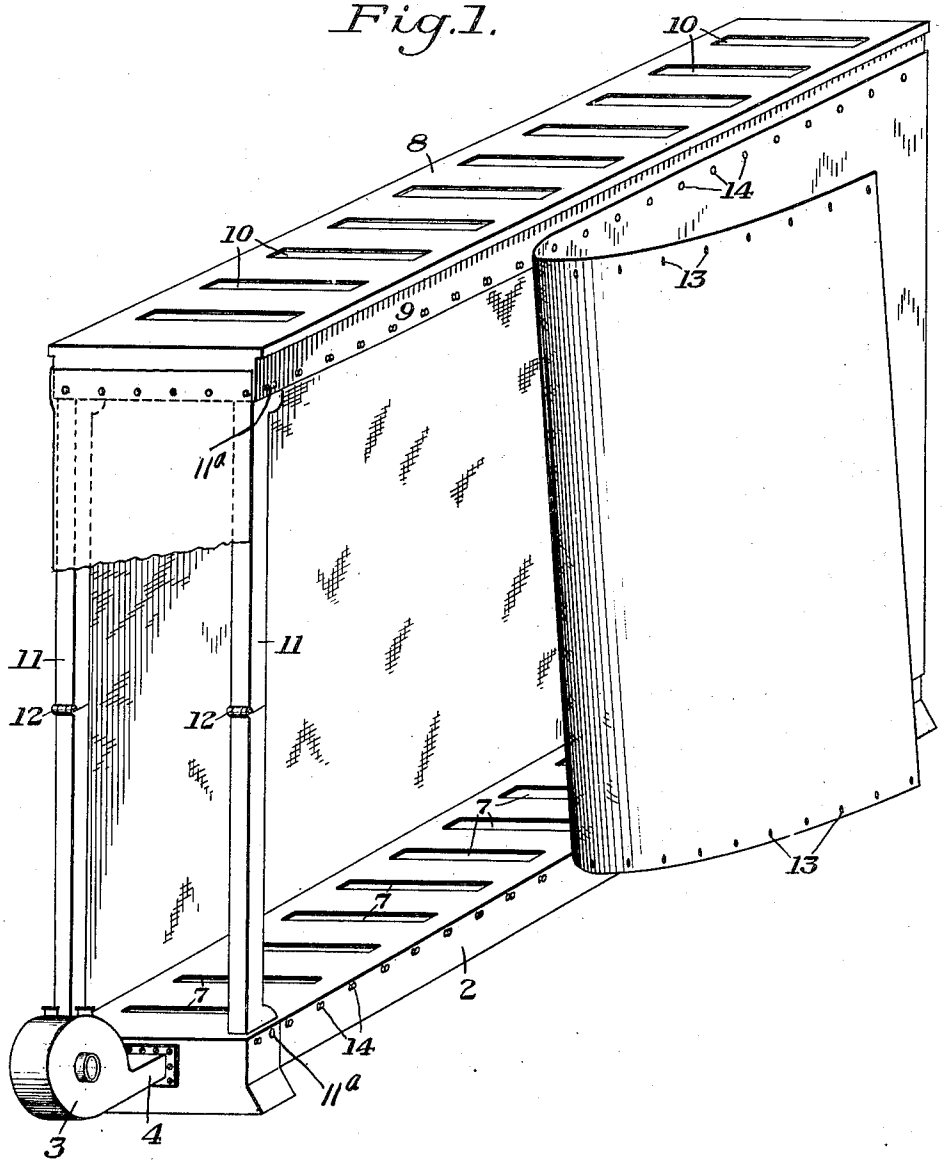
Oct. 16, 1923. 1,470,653

F. C. SULLIVAN

PORTABLE CLOTHES DRIER

Original Filed March 5, 1920 2 Sheets-Sheet 1

Fig. 1.



WITNESS

R. A. Balderson

INVENTOR

F. C. Sullivan

by Bakewell, Byrnes & Parmelee

his Attys

Oct. 16, 1923. 1,470,653

F. C. SULLIVAN

PORTABLE CLOTHES DRIER

Original Filed March 5, 1920 2 Sheets-Sheet 2

Fig. 2.

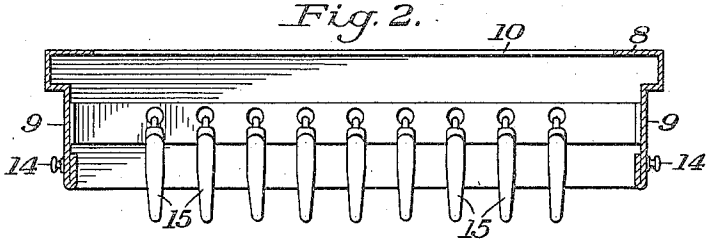


Fig. 3.

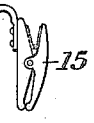


Fig. 4.

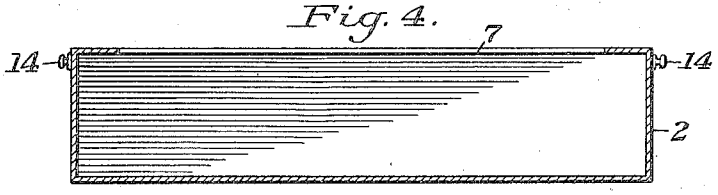


Fig. 5.

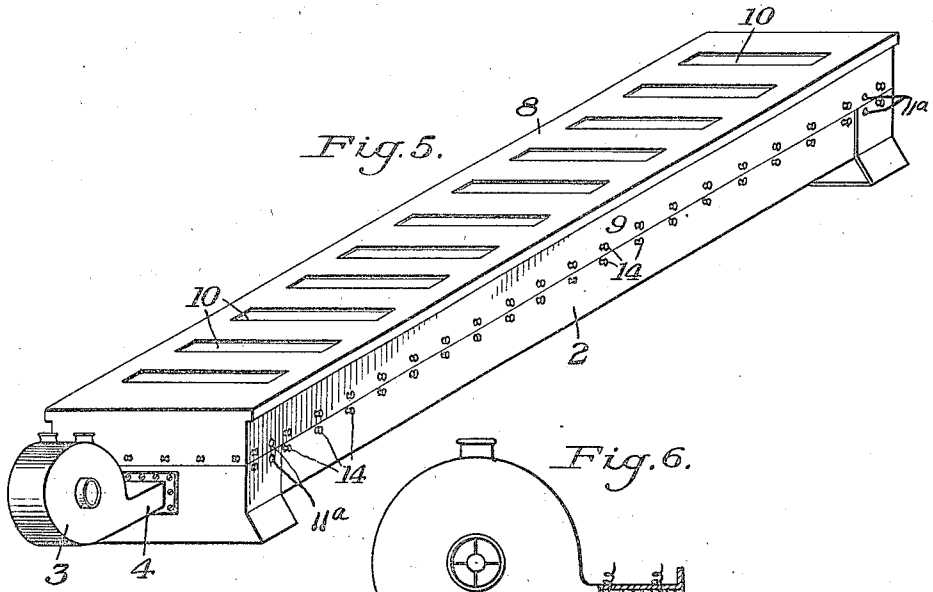


Fig. 6.

WITNESS

R. A. Baldinson

INVENTOR

F. C. Sullivan

by Bakewell, Byrnes & Saunders

his Attys.

Patented Oct. 16, 1923. 1,470,653

UNITED STATES PATENT OFFICE.

FRANCIS C. SULLIVAN, OF BRADDOCK, PENNSYLVANIA.

PORTABLE CLOTHES DRIER.

Application filed March 5, 1920, Serial No. 363,397. Renewed February 1, 1923. Serial No. 577,490.

To all whom it may concern:

Be it known that I, FRANCIS C. SULLIVAN, a citizen of the United States, residing at Braddock, Allegheny County, Pennsylvania, have invented a new and useful Improvement in Portable Clothes Driers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a clothes drier embodying my invention.

Figure 2 is a sectional view of the top portion of the drier.

Figure 3 is a detail view of one of the clothes pins which may be employed.

Figure 4 is a cross-sectional view of the base portion of the drier.

Figure 5 is a perspective view showing the drier in collapsed or folded position, and

Figure 6 is a side elevation partly broken away of the motor fan.

My invention has relation to clothes driers and is designed to provide a portable drier by means of which clothes, after being washed, may be quickly and effectively dried. The invention also provides a drier which, in its preferred form, is collapsible so that it can be folded into a compact form occupying but little space.

The invention further provides a drier having its lateral and end walls of cloth which can be readily and quickly removed for the purpose of washing, whereby the clothes being dried can be prevented from becoming soiled by contact with such walls.

Other advantages and objects of my invention will hereinafter appear.

The nature of the invention will be best understood by reference to the accompanying drawings in which I have shown a preferred embodiment thereof, and which will now be described, it being premised, however, that various changes can be made in the details of construction, arrangement and combination of the several parts, without departing from the spirit and scope of my invention as defined in the appended claims.

In these drawings, the numeral 2 designates the hollow base portion of the drier which forms a distributing chamber for the drying air. This drying air may be delivered into the chamber by any suitable means, preferably, by an electric motor-driven fan 3 having its delivery 4 extending into one end portion of the chamber. If desired, the fan structure may be provided with internally arranged electric-resistance coils, such as indicated at 5 in Figure 6, for the purpose of heating the air which is blasted into the chamber by the fan. The top member of the base portion is provided with a plurality of distributing slots 7 extending transversely thereof, or otherwise suitably arranged; these slots preferably being graduated so as to have a gradually increasing area from the fan end toward the opposite end, thereby providing for a more uniform distribution of the air. Preferably the motor fan is detachably engaged with the drier so that it can be readily removed, when desired.

The numeral 8 designates the top portion of the drier having downwardly extending edge flanges 9 and provided in its upper portion with any suitable arrangement of air discharge openings or slots 10.

The top and bottom portions of the drier are connected by four posts 11 pivoted at their upper and lower ends, these pivots being indicated at 11^a. In the preferred form of my invention, these posts are each provided with a hinge, such as indicated at 12, whereby, when desired, said posts may be buckled inwardly on these hinges and folded in such manner as to be received within the flanged top structure, the parts then assuming a flat folded position, shown in Figure 5.

The sides and end walls of the drier are formed of a suitable cloth material having botton holes 13 at their upper and lower edges which are adapted to be engaged with buttons 14 on the top and bottom portions of the drier. In lieu of button holes and buttons, any other suitable detachable fastenings may be employed.

The clothes to be dried are suspended from the top portion of the drier by means of suitable devices such, for instance, as the spring clothes pins 15, indicated in Figures 2 and 3. The operation will be readily understood.

The clothes to be dried are hung upon the pins 15, the cloth side and end walls of the drier are closed, and the motor fan started to blast air into the distributing chamber and thence upwardly through the clothes, moisture laden air escaping through the top openings or slots 10. In this manner the wet clothes are rapidly dried. When the drier is not in use, it can be readily folded into the position shown in Figure 5 in which it occupies but little space for storage.

Owing to the means for readily detachi g

the cloth sides and ends, these may be washed as frequently as necessary so that soiling of the clothes blown in contact therewith can be prevented. In folding the drier, these sides and ends may be either entirely removed, or they may be partially unbuttoned and folded within the drier.

I claim:

1. A clothes drier, comprising a base portion containing an air distributing chamber provided with outlets in its upper wall and having means at the top for the escape of air, a frame connected to the base portion, and flexible side and end walls carried by said frame, together with means for introducing air into said chamber, substantially as described.

2. A clothes drier, comprising a base portion having an air distributing chamber therein formed with graduated distributing openings in its top wall, and a closure for the clothes to be dried supported on said base portion and having air escape openings at its upper portion, substantially as described.

3. A portable clothes drier, comprising a base portion, a top portion, and hinged corner posts supporting the top portion from the base portion, said corner posts being arranged to fold inwardly and to be received within the top portion, substantially as described.

4. A portable clothes drier, comprising a base portion having an air distributing chamber therein, a flanged top portion having air escape openings, hinged posts supporting the top portion from the base portion, and flexible fabric side and end walls removably fastened to the base and top portions, substantially as described.

5. A portable clothes drier, comprising a base portion having an air distributing chamber therein, fan means for delivering air into said chamber, a flanged top portion having air escape openings, post members supporting the top portion from the base portion, and flexible fabric side and end walls having means for detachable engagement with said top and bottom portions, said top portion having clothes suspending means, substantially as described.

6. A portable clothes drier, comprising a base portion having an air distributing chamber therein, fan means for delivering air into said chamber, a flanged top portion having air escape openings, jointed inwardly folding post members supporting the top portion from the base portion, and flexible fabric side and end walls having means for detachable engagement with said top and bottom portions, said top portion having clothes suspending means, substantially as described.

7. A portable clothes drier, comprising a flat elongated base portion having an air distributing chamber therein, a flanged top portion extending parallel to the base portion, and hinged supporting members connecting the base and top portions, said supporting members being adapted to be folded inwardly and downwardly and to lie within the flanged part of the top portion, substantially as described.

8. A portable clothes drier, comprising a flat elongated base portion having an air distributing chamber therein, a flanged top portion extending parallel to the base portion, and hinged supporting members connecting the base and top portions, said supporting members being adapted to be folded inwardly and downwardly and to lie within the flanged part of the top portion, together with detachable cloth side and end walls forming a closure for the drying chamber of the drier, substantially as described.

9. A portable drier, comprising top and bottom portions, a drying chamber intermediate said portions, and detachable fabric side and end walls for said closure, said base portion having an air distributing chamber therein provided with a plurality of air discharge openings directed into the drying chamber, substantially as described.

10. A portable drier, comprising top and bottom portions, a drying chamber intermediate said portions, and detachable fabric side and end walls for said closure, said base portion having an air distributing chamber therein provided with a plurality of air discharge openings directed into the drying chamber, said top portion having a plurality of clothes supporting means for suspending the clothes within said drying chamber, substantially as described.

11. A clothes drier, comprising a base portion having an air distributing chamber therein formed with air distributing openings in its top wall, and a closure for the clothes to be dried supported on said base portion, substantially as described.

12. A clothes drier, comprising a portable chambered base, and a drying closure supported on said base, and means whereby an air circulation may be created through said closure and base, substantially as described.

13. In a clothes drier, a frame adapted to define a drying chamber, a porous covering detachably secured to said frame and enclosing said chamber, and means at one end of the frame for producing a circulation of air through the chamber, substantially as described.

14. In a clothes drier, a frame adapted to define a drying chamber, a flexible fabric covering detachably secured to said frame and enclosing said chamber, and means at one end of the frame for producing a circulation of air through the chamber, substantially as described.

15. In a clothes drier, a frame adapted to define a drying chamber, a flexible fabric covering detachably secured to said frame enclosing said chamber, and means at one end of the frame for producing a circulation of air through the chamber, the opposite end of the chamber being adapted to permit the passage of air in the direction induced by said means, substantially as described.

16. In a clothes drier, a frame adapted to define a drying chamber, a flexible fabric covering having its upper and lower edges detachably secured to said frame, and a fan at one end of the frame for producing a circulation of air through the chamber, the opposite end of the chamber being adapted to permit the passage of air in the direction induced by said fan, substantially as described.

17. In a clothes drier, a frame, a chamber constituting a closure for one side of said frame, an air-distributing means for one side of said chamber, means within the frame for holding the clothes to be dried, and means for producing a circulation of drying air through said frame, substantially as described.

18. In a clothes drier, a frame, a chamber constituting a closure for one side of said frame, an air-distributing means for one side of said chamber, means within the frame for holding the clothes to be dried, and means for producing a circulation of drying air through the frame from said chamber to the side of the frame opposite the chamber, substantially as described.

19. In a clothes drier, a frame, a covering for four sides of said frame, a chamber in one of the remaining sides of said frame, the side of said frame opposite said chamber being constructed to permit the passage of air therethrough, and means for producing a circulation of air through said frame between said chamber and said last mentioned side, substantially as described.

20. In a clothes drier, a frame, a covering for four sides of said frame, a chamber in one of the remaining sides of said frame, the side of said frame opposite said chamber being constructed to permit the passage of air therethrough, and means for producing a circulation of drying air through said frame between said chamber and said last mentioned side, substantially as described.

21. In a clothes drier, a drying compartment having a chamber constituting a closure for one side of said compartment, means within the compartment for holding the clothes to be dried, and means cooperating with said chamber for producing a circulation of air through the compartment, substantially as described.

22. In a clothes drier, a drying compartment having a chamber constituting a closure for one side of said compartment, means within the compartment for holding the clothes to be dried, and means cooperating with said chamber for producing a uniform circulation of heated air through the compartment from end to end thereof, substantially as described.

In testimony whereof, I have hereunto set my hand.

FRANCIS C. SULLIVAN.