

CLOTHES DRIER.

950,924.

2 SHEETS—SHEET 1.



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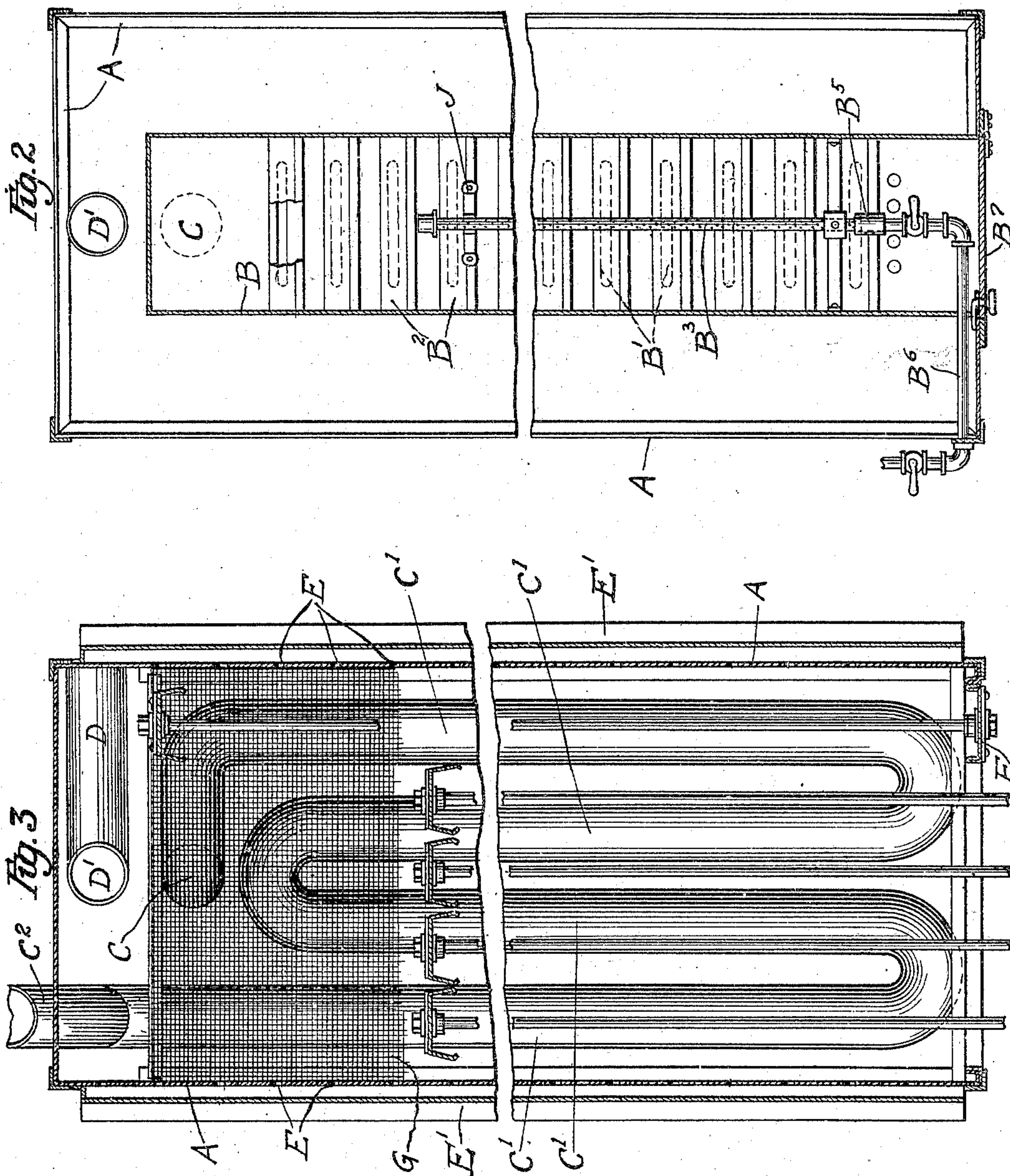
CLOTHES DRIER.

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2 SHEETS—SHEET 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS T. JOHNSON, OF CHICAGO, ILLINOIS.

CLOTHES-DRIER.

950,924.

Specification of Letters Patent.

Patented Mar. 1, 1910.

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To all whom it may concern:

Be it known that I, FRANCIS T. JOHNSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Clothes-Driers, of which the following is a specification.

My invention relates to clothes driers and has for its object to provide certain new and useful improvements relating thereto.

It is illustrated in the accompanying drawings, wherein—

Figure 1 is a longitudinal vertical section with some parts shown in broken lines, others in dotted lines; Fig. 2 is a horizontal section on the line 2—2 of Fig. 1; Fig. 3 is a horizontal section on the line 3—3 of Fig. 1.

Like parts are indicated by the same letter in all figures.

A A indicate the exterior walls, top and bottom of the inclosing case.

B is a heating chamber in the bottom of the case and it is provided with the transverse longitudinal openings B¹ B¹ in its bottom and the deflectors B² B² which cover these openings. It also has the long perforated burner pipe B³ with the controlling valve B⁴, air inlet connection B⁵, fluid fuel supply pipe B⁶ and door B⁷. From the inner end of this heating chamber leads the pipe C connecting the coil section C¹ C¹ through which the air passes to the discharge pipe C² which leaves the case at its upper end.

D is a pipe which leads into the casing from near the bottom thereof and D¹ is an upward extension which discharges into the case near the top thereof.

E E are a series of perforations along the top and preferably on both sides of the case protected by the hoods E¹ E¹.

F F are a series of racks of the ordinary type and pattern mounted in any desired manner.

G is a screen above the coil and beneath the racks.

The burner B³ may be supported at its inner end by the bridge J.

I wish my drawing to be taken as in a sense diagrammatic, although it illustrates an actual form of device which I am using. The parts, however, can be greatly changed without departing from the spirit of my invention. The essential features of my invention I shall set out in my claims.

The use and operation of my invention are

as follows: The heating chamber is placed in the bottom of the drying case and receives its air from the bottom. In other words, it takes in the cold, wet air which is drawn in the direction indicated by the arrows, by the deflectors. Any kind of a burner, for example such as I have suggested, may be used over these deflectors to heat this moist air and send it in a hot current through the coil and thence up through the vertical pipe to the discharge. All of the air is preferably admitted at the top of the drying case either through the holes under the hoods or through the vertical pipe for that purpose. When such a vertical pipe is used it is started in the bottom near the heating chamber and carried up back of the racks so that when heated it tends to draw in the air which is then carried down to the bottom of the drying case into the heating chamber.

I claim:

1. In a clothes drier, the combination of a drying case with means for introducing air near the upper part, a closed heating chamber near the bottom having bottom apertures, inner deflectors covering the same, and a burner above the deflectors, a coil of pipe above and connected with the heating chamber, and a discharge pipe leading from the coil and discharging near the upper part of the case.

2. In a clothes drier, the combination of a drying case with means for introducing air near the upper part comprising perforations along the top of the case and hoods to cover the same, a closed heating chamber near the bottom having bottom apertures, inner deflectors covering the same and a burner above the deflectors, a coil of pipe above and connected with the heating chamber, and a discharge pipe leading from the coil and discharging near the upper part of the case.

3. In a clothes drier, the combination of a drying case with means for introducing air near the upper part comprising a fresh air pipe which enters at the bottom of the case, passes upwardly therethrough and discharges into the top thereof, a closed heating chamber near the bottom having bottom apertures, inner deflectors covering the same and a burner above the deflectors, a coil of pipe above and connected with the heating chamber, and a discharge pipe leading from the coil and discharging near the upper part of the case.

4. In a clothes drier, the combination of
a drying case with means for introducing
air near the upper part comprising perfora-
tions along the top of the case and hoods to
5 cover the same and a fresh air pipe which
enters at the bottom of the case, passes up-
wardly therethrough and discharges into
the top thereof, a closed heating chamber
near the bottom having bottom apertures,
10 inner deflectors covering the same and a
burner above the deflectors, a coil of pipe
above and connected with the heating cham-
ber, and a discharge pipe leading from the
coil and discharging from the upper part
15 of the case.

5. In a clothes drier, the combination of
a drying case with means for introducing air
near the upper part, a closed heating chamber
near the bottom having bottom apertures,
20 a burner, a coil of pipe above and connected
with the heating chamber, and a discharge
pipe leading from the coil and discharging
from the upper part of the case.

6. In a clothes drier, the combination of
25 a drying case with means for introducing
air near the upper part, a closed heating

chamber near the bottom having bottom ap-
ertures, inner deflectors covering the same,
and a burner above the deflectors, and a
discharge pipe which leads from the heat- 30
ing chamber up through the case and dis-
charges near the upper part thereof.

7. In a clothes drier, the combination of
a drying case with means for introducing
air near the upper part, a closed heating 35
chamber near the bottom having bottom ap-
ertures, inner deflectors covering the same,
and a discharge pipe which leads from the
heating chamber up through the case and
discharges near the upper part thereof. 40

8. In a clothes drier, the combination of
a drying case with means for introducing
air near the upper part, a closed chamber
near the bottom having apertures, inner de- 45
flectors covering the same, and a discharge
pipe which leads from the heating chamber
up through the case and discharges near the
upper part thereof.

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