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D. K. FERRIS

2,388,219

DOMESTIC APPLIANCE

Filed Aug. 23, 1939

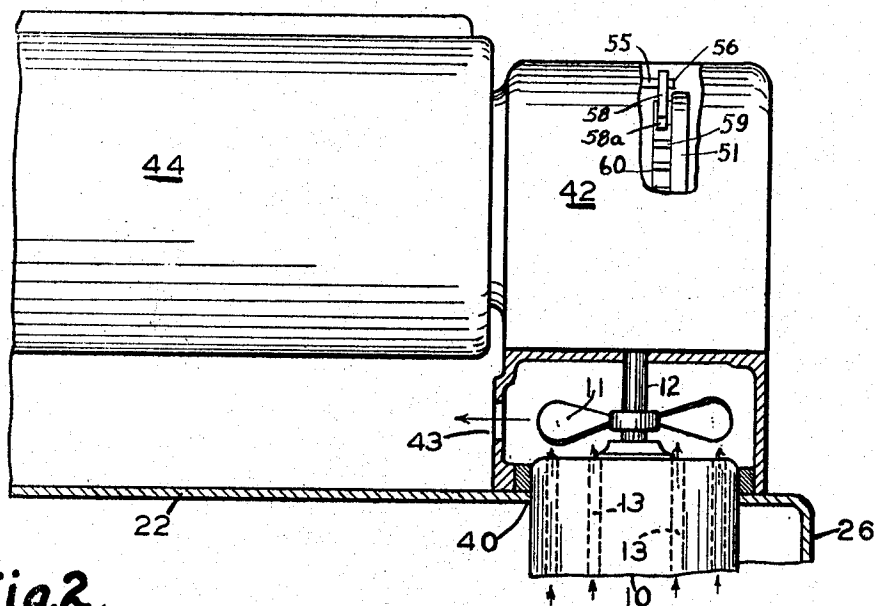


Fig. 2.

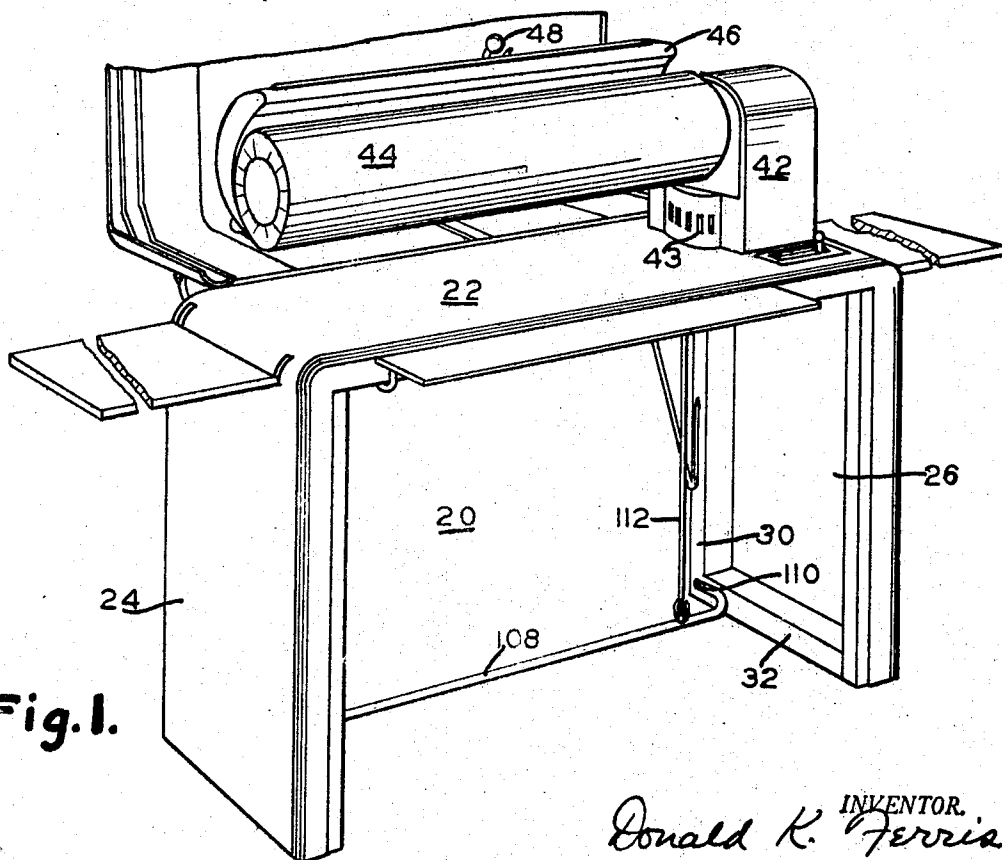


Fig. 1.

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UNITED STATES PATENT OFFICE

2,382,219

DOMESTIC APPLIANCE

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Application August 23, 1939, Serial No. 291,579

4 Claims. (Cl. 38—14)

This invention relates to a domestic appliance and more particularly to an ironing machine.

An object of this invention is to provide an improved construction for blowing air on articles leaving the ironing zone.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawing, wherein a preferred form of the present invention is clearly shown.

In the drawing:

Fig. 1 is a perspective view of an ironing machine embodying my invention;

Fig. 2 is a vertical, longitudinal sectional view through the ironing machine shown in Fig. 1 partly in elevation.

Referring now to the drawing and more particularly to Fig. 1, there is shown an ironing machine generally designated by the reference character 20 having a table support 22 and end supports 24 and 26 formed of downwardly extending portions at each end of the table support 22.

Upon one end of the table support over an aperture 40 there is provided a supporting head 42 containing the driving mechanism and supporting mechanism for the roll 44 which extends in one direction from the head of any well known construction. This driving mechanism includes an electric motor 10 provided with a cooling fan 11 on the drive shaft 12. The drive shaft 12 may be drivingly connectible with the roll in any well known manner, such for example, as is disclosed in the patent to Dunham 2,192,185, filed February 18, 1937, patented March 5, 1940. This may include the internal gear 51, control lever 55, pin 56, arm 58, hooked end 58a, depressions 59 in flange 60, of said patent to Dunham which constitute a planetary gear clutch for drivingly connecting the motor shaft 12 with the roll 44, as more fully described in said patent. The head 42 is provided with apertures 43 so located that the air which has been heated by ventilating and cooling the motor is discharged through the apertures onto the damp ironed material after it comes off the roll. The motor 10 is provided with air passageways 13 through which air is circulated by the fan 11. This air, which has been heated by the motor 10, is forced out through apertures 43 on to the ironed material as it moves from the roll 44 to the support 22. In this way this ventilating air dries the finished material and preserves the press. This warm air is admirable for this purpose since it is dry, but the discharge of any air upon the damp ironed material is highly beneficial since it carries away

the steam and substitutes unsaturated air for the saturated air which normally collects in the zone underneath the roll. The head 42 also supports a shoe 46 which is provided with a release lever 48.

The machine is operated by a pedal 108 which is in the form of a tubular member bent rearwardly at its ends to form a sort of U-shape. The ends of the tubular member are connected by pivot bolts 110 to the channels 32 and the reinforcing members 30. This pedal 108 is provided with an operating link 112 which connects it to the control for the ironing machine.

In the operation of the machine, the operator places material to be ironed between the roll 44 and shoe 46, and presses on the pedal 108. The shoe and roll 44 are brought together and the roll is rotated by the motor and gearing in the well known manner. As the motor operates it becomes heated, and the air circulated by the fan 11 is warmed as it passes through passageways 13. This air is forced through the openings 43 on to the material that has been ironed as it moves down from the roll 44 to the support 22. This removes moisture from the material and preserves the press.

While the form of embodiment of the invention as herein disclosed, constitutes a preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow.

What is claimed is as follows:

1. An ironing machine including a supporting means, a roll, a shoe for said roll, a supporting head for supporting said roll over said supporting means, said supporting head containing driving means for said roll and fan means for discharging air in the vicinity of ironed articles leaving the roll.

2. An ironing machine including a supporting means, a roll, a shoe for said roll, a supporting head for supporting said roll over said supporting means, an electric motor associated with said supporting head and drivingly connectible with said roll, and means for circulating air in thermal contact with said motor and for thereafter discharging said air upon ironed material coming off the roll.

3. An ironing machine including a supporting means, a roll, a shoe for said roll, a supporting head for supporting said roll over said supporting means, said supporting head being provided with an air discharge opening directed under said roll and over said supporting means, said supporting head containing means for heating air

and discharging the heated air through said opening.

4. An ironing machine including a supporting means, a roll, a shoe for said roll, a supporting head for supporting said roll over said supporting means, said supporting head being provided with an air discharge opening directed under said roll

and over said supporting means, an electric motor associated with said supporting head and driv-
ingly connectible to said roll, and fan means for
directing air in thermal contact with said motor
5 and out of said opening.

DONALD K. FERRIS.

Certificate of Correction

Patent No. 2,382,219.

August 14, 1945.

DONALD K. FERRIS

It is hereby certified that error appears in the above numbered patent requiring correction as follows: In the heading to the drawing, line 1, for the patent number "2,383,219" read *2,382,219*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 27th day of May, A. D. 1947.

[SEAL]

LESLIE FRAZER,

First Assistant Commissioner of Patents.