Nov. 18, 1924. 1,515,693

H. A. PAQUETTE

GAS HEATED FLATIRON

Filed March 2, 1922

FIG. 1

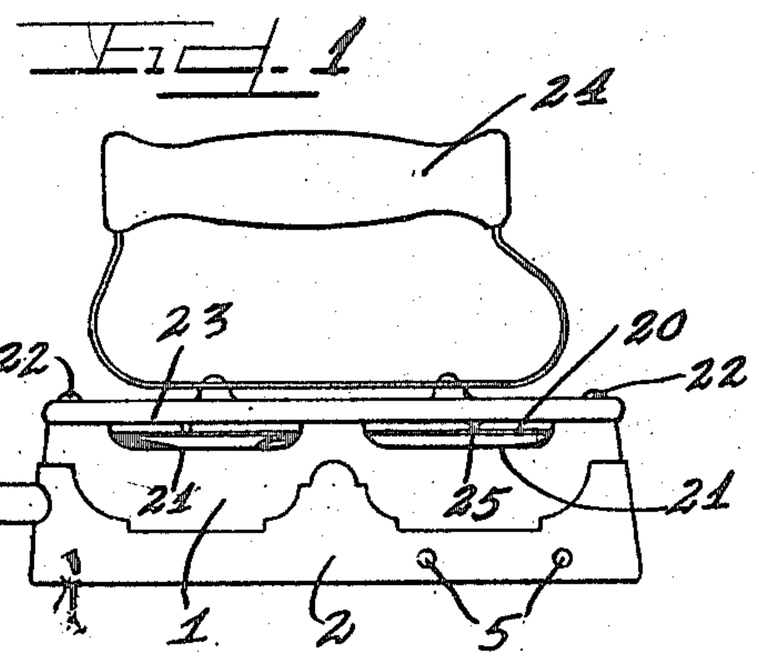


FIG. 4

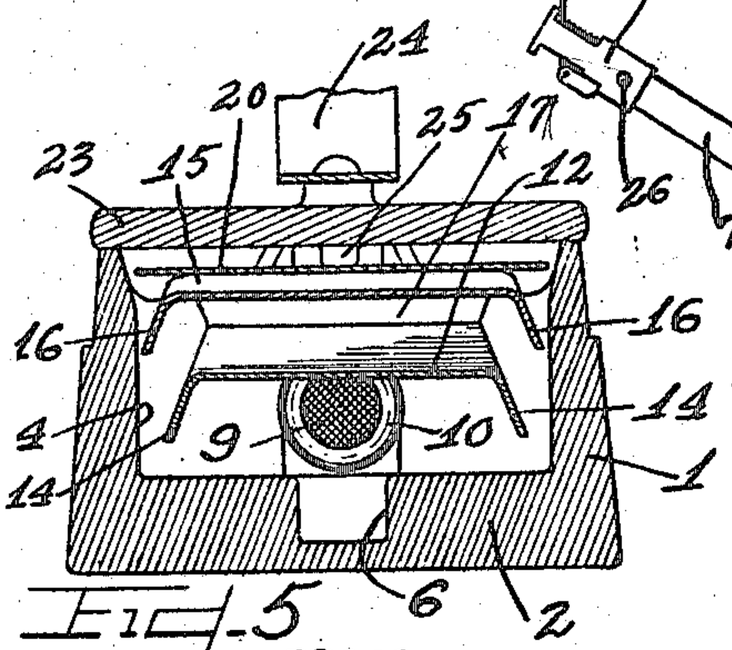


FIG. 2

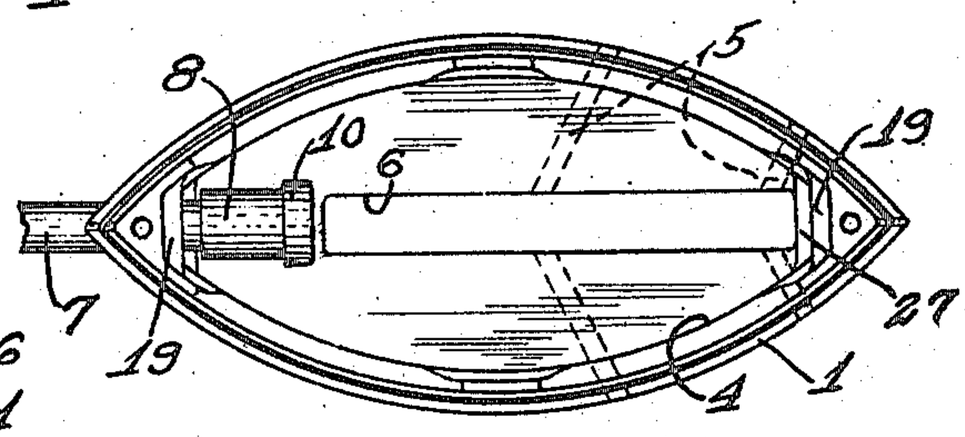


FIG. 5

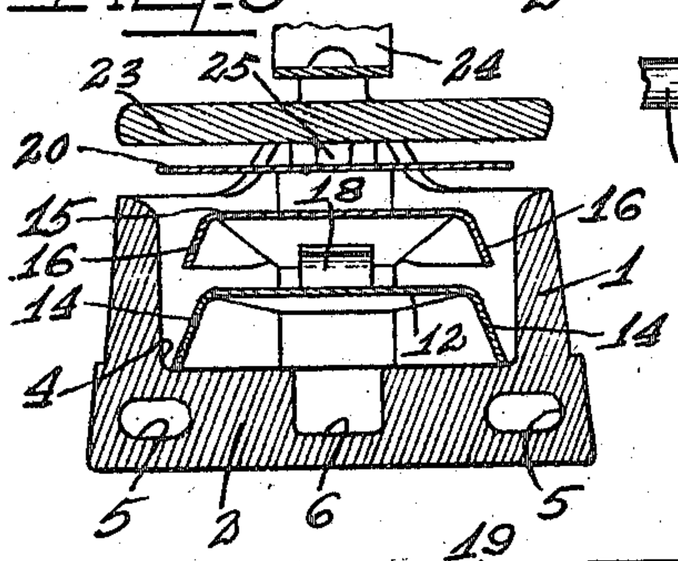
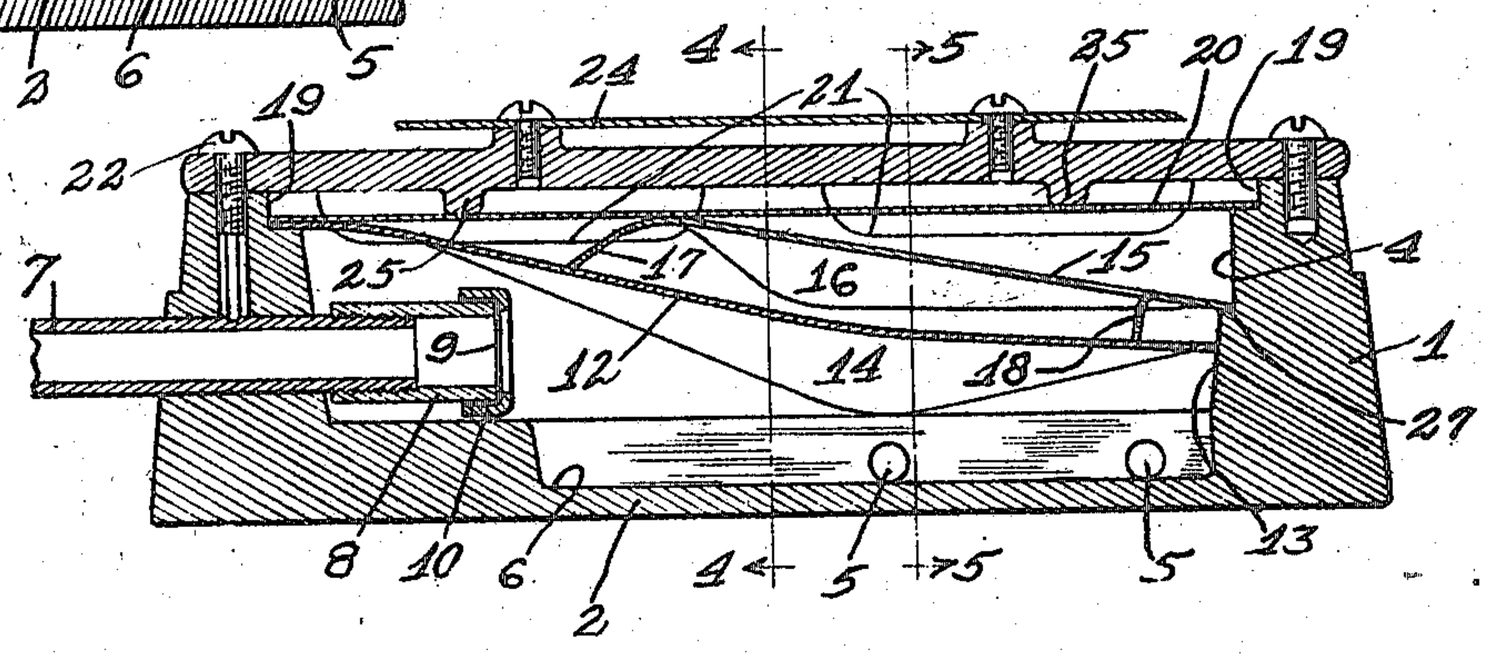


FIG. 3



Witnesses

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By Charles Hill Atty.

Patented Nov. 18, 1924. 1,515,693

UNITED STATES PATENT OFFICE.

HERMAN A. PAQUETTE, OF CHICAGO, ILLINOIS.

GAS-HEATED FLATIRON.

Application filed March 2, 1922. Serial No. 540,392.

To all whom it may concern:

Be it known that I, HERMAN A. PAQUETTE, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Gas-Heated Flatiron; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

This invention relates more particularly to an improved type of flat iron adapted to be heated by a gas flame which is arranged to direct a heating flame into one end of the iron casing which is equipped with a plurality of baffle plates so disposed that the flames entering the casing are directed to flow in a circuitous path upwardly in the casing in order that the greatest amount of heat may be retained in the lower portion of the casing, thereby causing heating of the flat iron base while the top remains practically unheated.

It is an object of this invention to provide a flat iron heated by gas flames.

It is also an object of the invention to provide a gas heated flat iron having a series of superimposed contacting baffle plates arranged therein for the purpose of retaining the greatest amount of heat adjacent the base plate of the iron to heat said base plate.

Another object of the invention is to construct a flat iron with baffle plates arranged to cause heating of the base of the iron while the top is maintained practically cool.

It is an important object of this invention to provide a flat iron of simple and effective construction adapted to be heated by a gas flame directed into the iron and guided upwardly through the casing in a circuitous path and through passages provided in the base plate of the iron to heat the base plate without materially causing heating of the upper portion of the iron.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawings.

The invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a side elevation of the flat iron embodying the principles of this invention.

Figure 2 is an enlarged top plan view thereof with the cover plate and the baffle plates removed.

Figure 3 is an enlarged longitudinal vertical section of the iron.

Figure 4 is a transverse section taken on line 4—4 of Figure 3.

Figure 5 is a transverse section taken on line 5—5 of Figure 3.

As shown on the drawings:

The reference numeral 1 indicates a hollow metal flat iron casing having an integral base plate 2 provided with inclined passages 5 which communicate with the casing chamber 4 through a longitudinal recess 6 in the base plate. The openings or passages 5 extend from the recess 6 outwardly through the base plate 2 and communicate with the atmosphere.

Projecting into one end of the casing 1 is a stem or pipe 7 having a sleeve 8 engaged on the inner end thereof. A screen 9 is secured over the inner end of the sleeve 8 by a ring 10 or other suitable means. Attached to the outer end of the pipe 7 is a gas burner socket or connector 11 similar in construction to that disclosed and claimed in my co-pending application for patent for a "gas iron hose connector," Serial No. 540,339, filed March 2, 1922.

Positioned with the casing chamber 4 is a lower or main inclined baffle plate 12 having the rear end uppermost and seated in a rear casing notch 19 above the screen sleeve 8. The front end of the baffle plate 12 is lower than the rear end and rests against the lower inclined inner end wall 13 of the flat iron casing 1. Downwardly directed flanges 14 are integrally formed on the opposite longitudinal margins of the main baffle plate and rest upon the floor of the flat iron casing.

Positioned above the main or lower inclined baffle plate 12 is an intermediate inclined baffle plate 15 having integral longitudinal side flanges 16. The upper rear end of the intermediate baffle plate 15 is bent downwardly as at 17 to form a leg which rests upon the main baffle plate 12. Struck from the lower front end of the intermediate baffle plate 15 is a lug or leg 18 which supports the lower end of the baffle plate 15 upon the lower end portion of the main baffle plate 12. The lower end of the intermediate baffle plate 15 also seats in a casing notch 27. Seated in notches 19 in the ends of the upper

portion of the casing 1 and resting intermediate its end on the curved intermediate baffle plate 15, is a horizontal upper baffle plate 20. As illustrated in Figures 1 and 3, the upper side margins of the casing 1 are cut away or formed to afford draft recesses 21.

Secured upon the top of the casing 1 by screws 22 or other suitable means is a top or cover plate 23 to which a handle 24 is secured. Lugs or pins 25 are formed on the inner surface of the cover plate 23 to hold the upper baffle plate 20 seated in position in the casing notches 19 and against the intermediate baffle plate 15.

The operation is as follows:

A gas hose provided with a plug is adapted to be attached to a gas jet with the plug end inserted into the burner connector 11 to supply gas to the flat iron burner. When the gas cock is opened, gas flows into the burner connector 11 and is ignited through the opening 26 shown in Figure 1. The gas flame passes through the pipe 7 and sleeve 8 through the screen 9 into the casing chamber 4 below the rear elevated end of the lower baffle plate 12 which serves to cause most of the heat from the flame to be expended in causing heating of the casing base plate 2. The passages formed by the plate 15 in the casing permit the hot air to pass therethrough to assist in heating the base plate. The arrangement of the baffle plates supported one above the other against movement, as shown and described, is such that practically all of the heat from the heating gas flame is retained in the lower portion of the casing chamber, thereby keeping the cover plate 23 substantially unheated. The various baffle plates serve to prevent the heated air from striking against the cover plate.

The flat iron is of simple construction, having practically no parts which may get out of order. The cover plate may be readily removed to permit cleaning of the interior of the iron when necessary. The heating of the iron may be regulated by regulating the heating flame by adjustment of the gas feed cock.

I am aware that numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

I claim as my invention:

1. A gas heated flat iron comprising a casing having a longitudinal recess and passages in the base plate thereof, a pipe projecting into the casing, a sleeve secured on the inner end thereof, a screen covering the inner end of said sleeve, a lower inclined baffle plate positioned within the casing with one end disposed above the pipe sleeve, an inclined intermediate baffle plate in said casing supportd on said lower baffle plate, and an upper baffle plate in said casing supported by the casing and contacting said intermediate baffle plate.

2. A flat iron comprising a casing, means connected therewith for heating the same by gas, an inclined flanged lower baffle plate disposed within the casing with the flanges thereof resting on the bottom of the casing, an intermediate flanged inclined baffle plate having one end bent to rest on said lower baffle plate, a lug struck from the other end of said intermediate baffle plate and resting on the lower end of said lower baffle plate, and an upper baffle plate seated in said casing above the intermediate baffle plate and contacting the same.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

HERMAN A. PAQUETTE.

Witnesses:

CARLTON HILL,

FRED E. PAESLER.