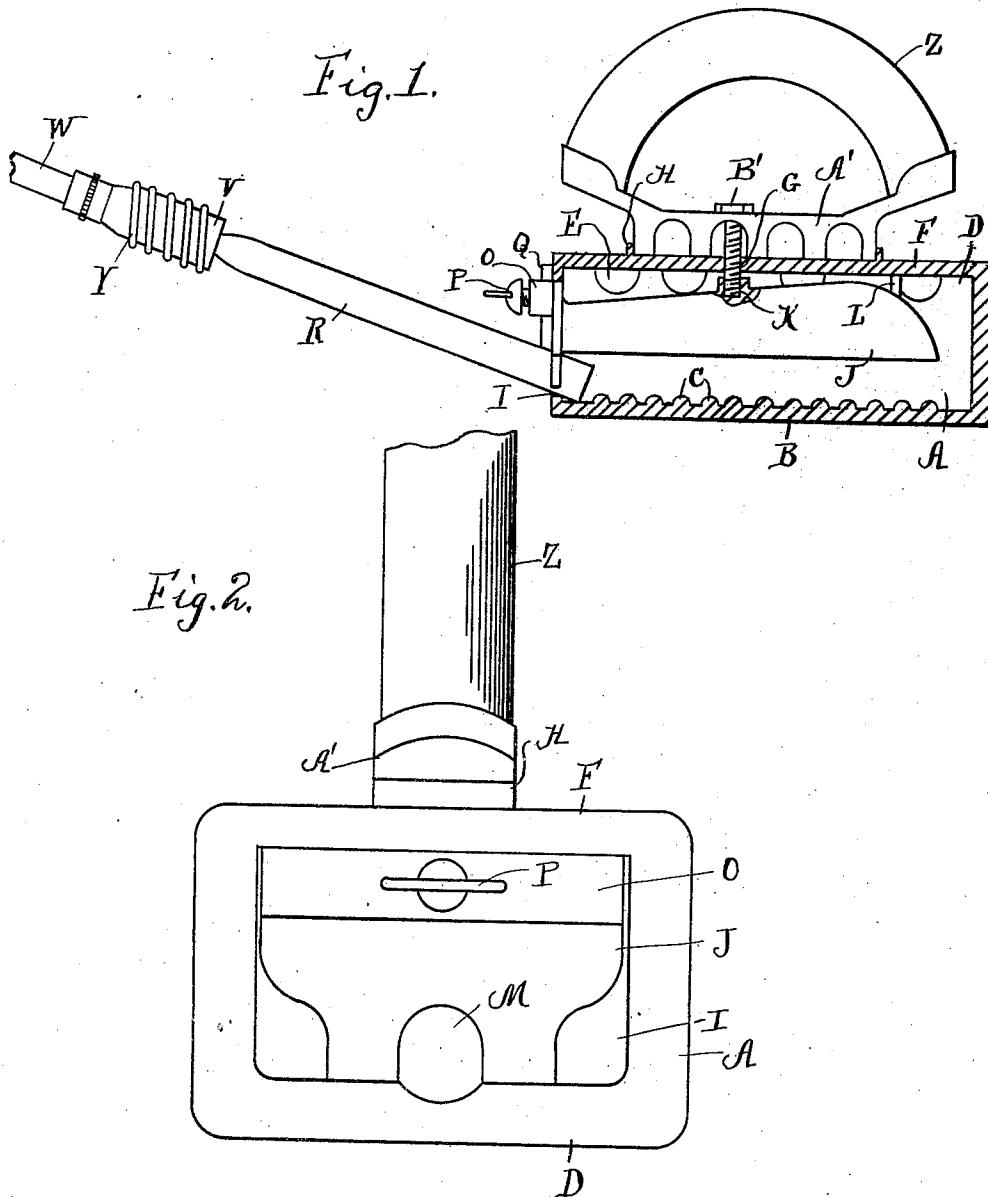


J. H. BROWNLEE.
GAS HEATED IRON.
APPLICATION FILED SEPT. 20, 1909.

969,033.

Patented Aug. 30, 1910.
2 SHEETS—SHEET 1.



WITNESSES

S. Williamson
S. M. Gallagher

INVENTOR

James H. Brownlee

BY

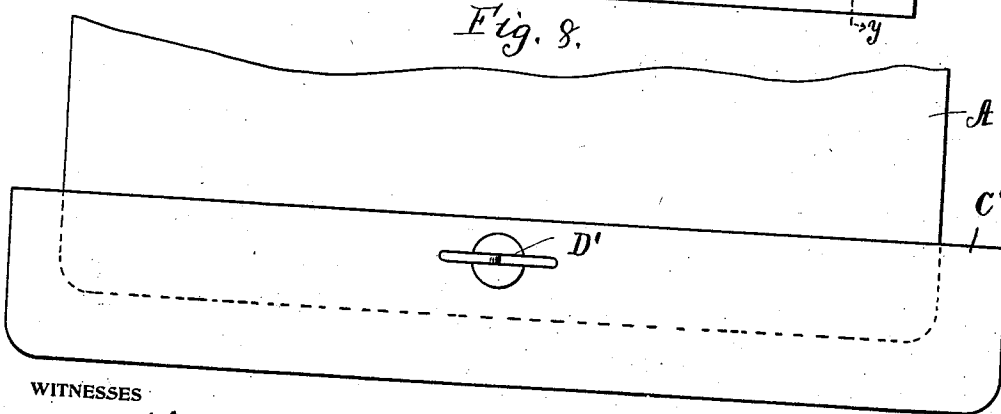
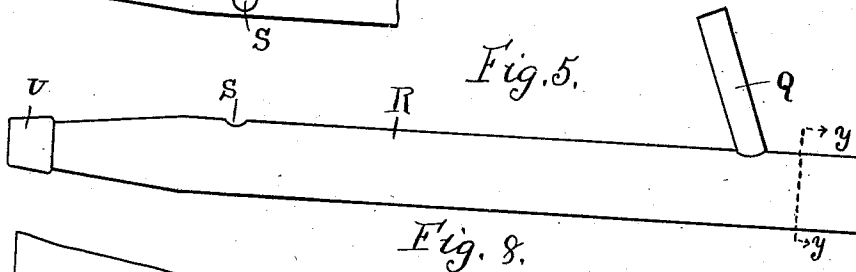
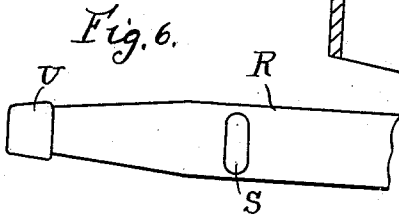
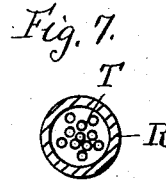
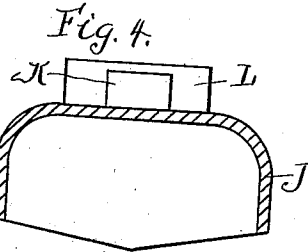
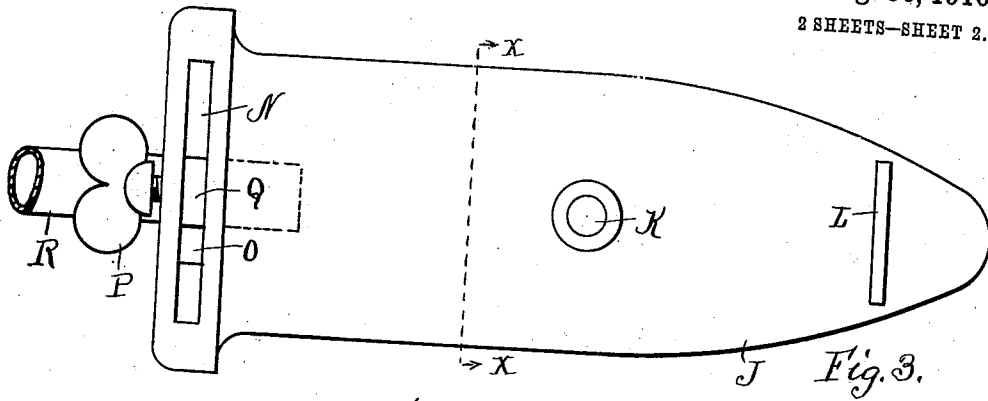
W. P. Williamson

ATTORNEY

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2 SHEETS—SHEET 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES H. BROWNLEE, OF PHILADELPHIA, PENNSYLVANIA.

GAS-HEATED IRON.

969,033.

Specification of Letters Patent. Patented Aug. 30, 1910.

Application filed September 20, 1909. Serial No. 518,523.

To all whom it may concern:

Be it known that I, JAMES H. BROWNLEE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Gas-Heated Irons, of which the following is a specification.

My invention relates to a new and useful improvement in gas heated irons, and has for its object to overcome the disadvantage hertofore experienced in lighting the gas in said irons by providing a detachable burner which may be readily and easily removed, lighted and easily re-attached.

Another object of the invention is to provide the construction of such irons so that there will be but few parts and to provide a means for readily securing the principal parts together.

A further object of the invention is to provide in combination with the detachable burner a means for spreading the flame.

A still further object of the invention is to provide a means for attaching the hose to the burner.

A still further object of the invention is to provide a deflector causing the flames to come in contact with the lower portion of the iron, thus increasing its heating capacity, and another object is to provide a simple and efficient means for increasing the weight of the iron.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a longitudinal sectional view of my improvement showing the deflector, burner and handle in elevation. Fig. 2, an enlarged rear end view thereof. Fig. 3, an enlarged view of the deflector, showing the burner attached thereto. Fig. 4, a section at the line $x-x$ of Fig. 3 looking in the direction of the arrows. Fig. 5, a side elevation of the burner. Fig. 6, a view at right angles thereto of a portion thereof. Fig. 7, a section at the line $y-y$ of Fig. 5. Fig. 8,

a side elevation of a portion of the iron showing the shoe applied thereto for increasing the weight.

In carrying out my invention as here embodied, A represents the body of the iron, which may be of any desired shape and weight, and which is cast hollow and in one piece so as to form the bottom B, the inner surface of which is grooved, as indicated by C so as to spread the flame in order to fully utilize it in heating the bottom surface, the side walls D having apertures E and the top F having a hole G and provided with projections H, the back being entirely open, as indicated by I.

J is the deflector having a screw receiving opening K and provided with a projection L at its forward end. In the back of said deflector is formed the slot M, and in its upper edge is formed another slot N, at one end of which is formed the stop O. Into the slot N is threaded the thumb screw P, which engages the arm Q formed with the burner R, said burner being provided with an opening S for the admission of air and having in its inner end a perforated plate or screen T for spreading the flames.

The outer end of the burner is provided with a nipple U, over which passes the socket V of the tube W, said socket having a wire Y coiled about it to keep it from expanding when it becomes hot from the heat in the burner.

In order that comparatively no heat may reach the handle Z, I provide a shoe A', the sides of which are open, and which rests between the projections H on the top of the iron. Through this shoe passes a screw B' which also passes through the opening G in the top of the iron and is threaded into the opening K in the deflector, thus securing the deflector and the handle to the iron.

C' is a shoe the same shape as the body A of the iron and which fits on the bottom of said body, being held thereto by suitable thumb screws D' or their equivalents. These thumb screws may be placed any desirable distance apart, or one may be placed in both sides. This shoe is used for ironing purposes the same as the regular iron but makes an iron of greater weight for doing heavy work, and by the use of the same it is unnecessary to have a great number of complete different size irons.

In practice, the thumb screw P is backed off the desired distance and the burner R

then turned to one side so that the arm Q will move away from the stop O. This will cause the arm Q to move in a circle with the burner as a center, so that said arm will pass downward out of the slot N, at which time the burner may be removed, lighted after the manner of an ordinary gas jet or Bunsen burner and then replaced by reversing the operation just explained. This will cause the flame to be projected into the body of the iron.

By this construction and operation the difficulty of lighting a burner is entirely overcome and prevents explosions which take place when a burner is lighted that is permanently attached to an iron, for in such case the iron is likely to become filled with gas. By the construction here shown an iron is produced the parts of which may be readily and easily placed together with very little expense and trouble, and by using a deflector that portion of the flame which does not play upon the body of the iron will be deflected against the bottom of the iron, and it further forms a shield keeping the heat from the top wall of the iron.

Of course I do not wish to be limited to the exact details of construction here shown as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful, is—

1. In a device of the character described, the combination of a hollow body, a handle mounted on top of said body, a deflector mounted within the body, a screw passing through the handle, the top of the body and into the deflector for securing said handle and deflector to the body, and a burner detachably secured to the rear of the deflector, as specified.

2. In a device of the character described, the combination of a hollow body, a handle, a deflector having a slot in the rear portion thereof, means for securing the handle and deflector to the body, a burner having an arm formed therewith, said arm adapted to engage the slot in the rear of the deflector, and a thumb screw adapted to engage the arm for holding the burner in position.

3. In combination in an iron of the character described, a hollow body, grooves formed upon the bottom wall of the space within the body, a handle, a deflector, means for securing said handle and deflector to the body, a burner having an arm formed therewith, and means for detachably securing said burner to the rear of the deflector.

4. In a device of the character described, the combination of a hollow body having a bottom provided with grooves, side walls

having apertures therein and a top provided with an opening and having projections formed therewith, a shoe, the sides of which are open, a handle secured thereto, a deflector, a screw passing through the shoe, the top of the body and into the deflector, and a burner detachably secured to the rear of the deflector, as specified.

5. In a device of the character described, the combination of a hollow body having a bottom provided with grooves, side walls having apertures therein and a top provided with an opening and having projections formed therewith, a shoe, the sides of which are open, a handle secured thereto, a deflector having a slot in the rear thereof and another slot near the top, a stop formed in the last named slot, a screw passing through the shoe, top of the body and into the deflector, and a burner detachably secured to the rear of the deflector, for the purpose set forth.

6. In a device of the character described, the combination of a hollow body having a bottom provided with grooves, side walls having apertures therein and a top provided with an opening and having projections formed therewith, a shoe, the sides of which are open, a handle secured thereto, a deflector having a slot in the rear thereof and another slot near the top, a stop formed in the last named slot, a projection formed with the front portion of the deflector adapted to rest against the inner surface of the top, a screw passing through the shoe, top of the body and into the deflector, a burner, an arm formed therewith adapted to register with the last named slot, and a thumb screw engaging with the arm for holding the burner in position.

7. In combination, a hollow body, a deflector, a handle, a screw for securing said handle and deflector to the body, a burner provided with an arm and having a nipple formed on its outer end said burner being detachably secured to the rear of the deflector, a gas hose adapted to pass over the nipple, and a wire coiled about said hose.

8. In combination, a hollow body, a handle, a deflector mounted within the body, a screw for securing the handle and deflector to the body, a burner detachably secured to the rear of the deflector, and a perforated member mounted in the end of the burner, for the purpose set forth.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

JAMES H. BROWNLEE.

Witnesses:

WM. J. CROCKETT,
JAS. T. HINCHLIFFE.