

N. E. WALKER.
LAUNDRY IRON.
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1,017,933.

Patented Feb. 20, 1912.

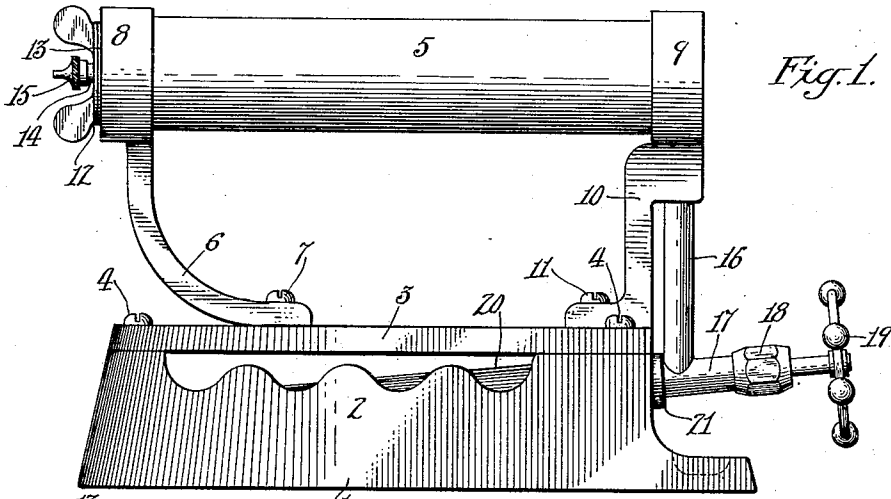


Fig. 1.

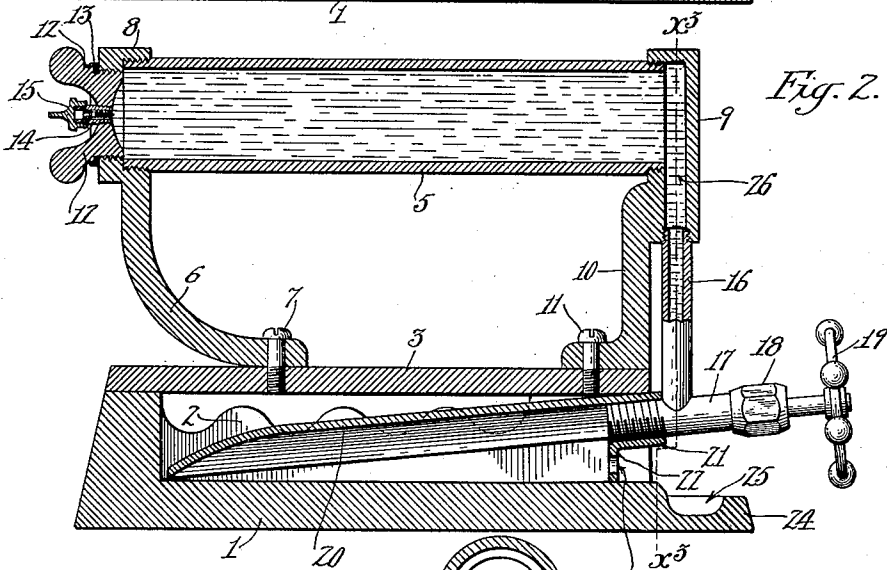


Fig. 2.

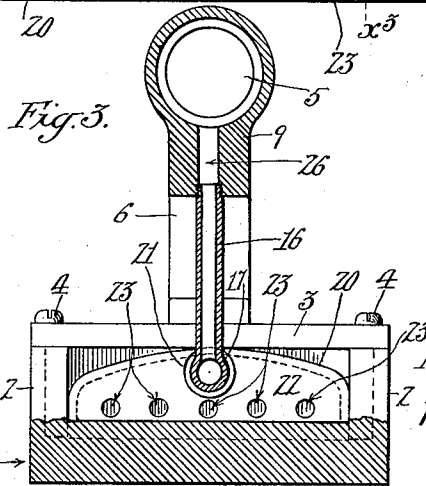


Fig. 3.

Witnesses:
Louis W. Gatz
Frank S. Mahan

Inventor:
Napoleon E. Walker
Witnessed by my atty

UNITED STATES PATENT OFFICE.

NAPOLEAN E. WALKER, OF ONTARIO, CALIFORNIA, ASSIGNOR OF ONE-FOURTH TO T. L. LORBEER, OF HEMET, CALIFORNIA.

LAUNDRY-IRON.

1,017,933.

Specification of Letters Patent.

Patented Feb. 20, 1912.

Application filed February 24, 1908. Serial No. 417,618.

To all whom it may concern:

Be it known that I, NAPOLEAN E. WALKER, a citizen of the United States, residing at Ontario, in the county of San Bernardino and State of California, have invented a new and useful Laundry-Iron, of which the following is a specification.

This invention relates to laundry irons in which the iron is heated by means of combustion maintained within or upon the body of the iron, the invention being designed for using gasoline or other liquid fuel, and the main object of the invention is to provide means for storing the gasoline or other liquid fuel in the iron itself whereby extraneous reservoirs with their necessary connecting tubes are eliminated, and the iron is a self contained unit which, when supplied with fuel, will operate for a long time and not be impeded in its movement by any connections from extraneous reservoirs.

Other advantages will be brought out in detail in the following specification.

Referring to the drawings:—Figure 1 is a side elevation of the iron. Fig. 2 is a vertical, longitudinal section through the iron, a part of the burner being shown in elevation. Fig. 3 is a section on line x^3-x^3 Fig. 2.

The iron comprises a body portion 1 having a hollow interior and side walls 2, the upper edges of which are preferably scalloped as shown, which permits the circulation of air under the top plate 3. The top plate 3 is secured to the body of the iron by screws 4 and a handle 5 is secured to the iron, at its forward end by a bracket 6 which is attached by screw 7 to the top plate 3, bracket 6 having a head 8 in which is screwed the forward end of the handle 5. The rear end of the handle 5 is screwed into a head 9 formed on a rear bracket 10 which is fastened to the top plate 3 by screw 11.

The handle 5 is made hollow and serves as a reservoir for the liquid fuel employed, for example, gasoline, and the front end of the reservoir is closed by a removable screw plug 12 which is screwed to the head 8, a gasket 13 preventing leakage when the plug is in place. A check valve 14 is arranged in the center of the plug 12 and has a removable cap 15. By removing cap 15 a pump not shown may be attached to the valve 14 and air pumped into the reservoir to place the gasoline under pressure, the check valve

14 permitting inward flow of air into the reservoir but preventing its outward passage therefrom. The cap 15 is screwed into place after the air has been pumped in.

The head 9 is hollow and communicates with the interior of the handle 5, and screwed to the lower part of the head 9 is a tube 16, the lower end of which communicates with a burner tube 17 having a valve 18 controlled by handle 19.

A deflector plate 20 is arranged within the body 1, its rear end having a boss 21 which is screwed to the burner tube 17 and a web 22 depends from the boss 21 and fits the bottom portion of the iron, the web being provided with perforations 23 to permit the passage of air into the interior of the iron below the deflector plate 20, to supply the necessary air for combustion of the fuel which is discharged from the burner tube 17. The deflector plate 20 is arranged on an incline, as clearly shown in Fig. 2, and its front end is down-curved as shown and rests close to the bottom of the iron. The deflector plate is also curved in cross section, as indicated in Figs. 2 and 3. The body of the iron 1 has a rear extension 24 formed with a cup 25 to hold a small quantity of gasoline which may be ignited to heat the burner tube 17 in starting the burner.

As the flame is projected from the burner tube it is deflected downwardly against the bottom of the iron by the deflector plate 20 which results in heating the sole of the iron to a greater degree than if the deflector were not employed and the deflector plate also prevents the heat from rising and thus aids in keeping the top plate 3 cool, the latter being further cooled by the air which circulates underneath it, which circulation is permitted by the scalloped edges 2. The air pressure within the reservoir causes constant feed of the gasoline to the burner and produces a steady action of the burner. The lower portion of the hollow head 9 forms a pocket at 26, the bore of which is of greater diameter than the bore of the tube 16 so that when the gasoline becomes very low, the gasoline which is within the pocket 26, being located below the lowest wall of the hollow handle 5, is prevented from surging toward the front end of the handle during the forward stroke of the iron and thus air is prevented from getting from the hollow handle to the burner.

What I claim is:—

In a laundry iron, a hollow body, a burner
for projecting fuel into said body, a top
plate secured to the body, a front bracket se-
cured to the top plate and having a head, a
5 rear bracket secured to the top plate and
having a hollow head, a hollow handle se-
cured to the hollow head of the rear bracket,
the front end of the handle being screwed to
10 the head on the front bracket, a tube extend-
ing from the rear hollow head to the burner,
a removable plug in the head of the front
bracket, and a deflector plate arranged in

the body of the iron at an angle with its
front end close to the bottom of the iron, 15
the side walls of the body of the iron being
formed to permit air to circulate over said
deflector plate and under the top plate of
the iron.

In testimony whereof, I have hereunto set 20
my hand at Hemet, Cal. this 13 day of Feb.
1908.

NAPOLÉON E. WALKER.

In presence of—

WILLIAM KINGHAM,
W. G. GAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."