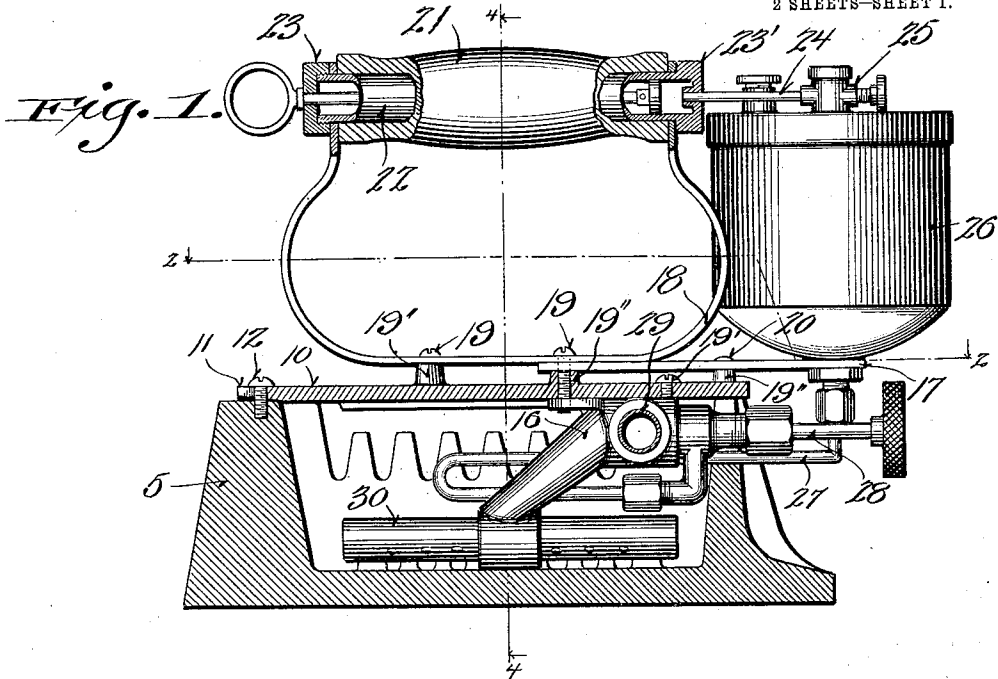


F. SETTE.  
SELF HEATING SAD IRON.  
APPLICATION FILED FEB. 2, 1912.

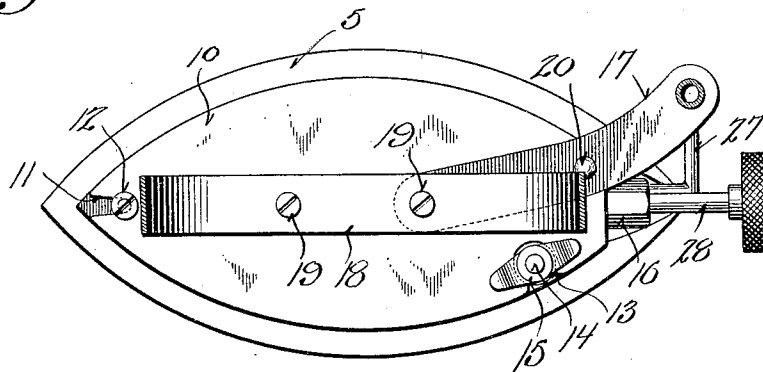
1,050,088.

Patented Jan. 7, 1913.

2 SHEETS—SHEET 1.



*Fig. 2.*



Witnessed:  
Carson Young  
May Downey.

Witnessed:  
Frederick Sette  
By *Clifton Young*  
Attorneys.

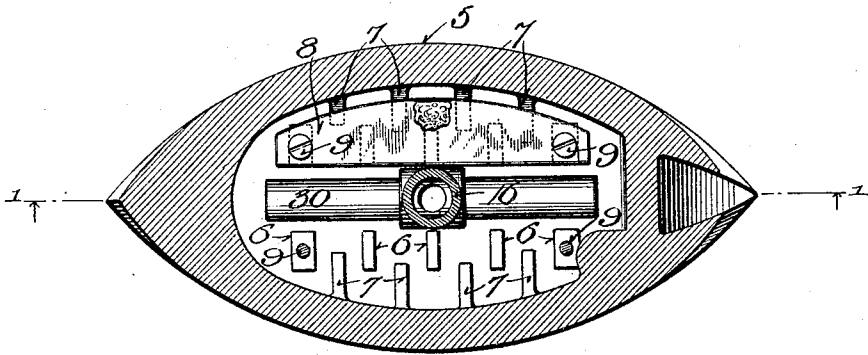
F. SETTE.  
SELF HEATING SAD IRON.  
APPLICATION FILED FEB. 2, 1912.

1,050,088.

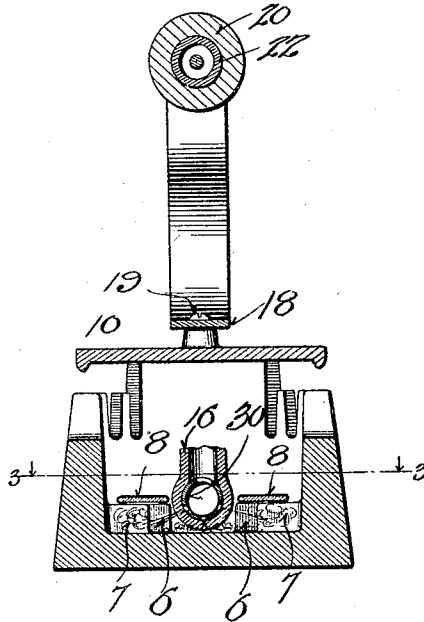
Patented Jan. 7, 1913.

2 SHEETS—SHEET 2.

*Fig. 3.*



*Fig. 4.*



*Witnessed:*  
*Caroline Young*  
*May Downey*

*Inventor:*  
*Fredrick Sette*  
*By* *Clifton Young*  
*Attorney*

# UNITED STATES PATENT OFFICE.

FREDERICK SETTE, OF IRON RIDGE, WISCONSIN.

SELF-HEATING SAD-IRON.

1,050,088.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed February 2, 1912. Serial No. 674,895.

*To all whom it may concern:*

Be it known that I, FREDERICK SETTE, a citizen of the United States, and resident of Iron Ridge, in the county of Dodge and State of Wisconsin, have invented certain new and useful Improvements in Self-Heating Sad-Irons; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention consists in what is herein particularly set forth with reference to the accompanying drawings and pointed out in the claims of this specification, its object being to provide simple, economical and efficient self-heating said-irons designed to utilize gasoline or other hydrocarbon fluid as fuel to the best advantage, and to have each of said irons provided with an air-pump permanent therewith in connection with the fuel-tank.

Figure 1 of the drawings represents a vertical longitudinal sectional view of my improved self-heating sad-irons on the plane indicated by line 1—1 in Fig. 3; Fig. 2, a plan view of the same partly in horizontal section indicated by line 2—2 in Fig. 1; Fig. 3, a similar view indicated by line 3—3 in Fig. 4, one of a pair of baffle-plates in the iron being removed, and Fig. 4, a transverse sectional view indicated by line 4—4 in Fig. 1.

Referring by numerals to the drawings, 5 indicates the hollow body of my improved self-heating sad-iron provided upon the interior with upwardly extending bottom lugs in paired series at intervals longitudinally thereof, those in one series of each pair alternating with those of the other series in the same pair.

Supported on each set of the lugs 6 and 7 is a horizontal baffle-plate 8 fastened by screws 9 or other suitable means to certain of said lugs, space being left between an edge of said plate and the adjacent wall of the iron. Each baffle-plate is preferably of sheet-metal folded upon a lining of asbestos or other suitable refractory material.

The top 10 of the iron is provided with a front recess 11 engageable with a screw 12 or other suitable holding device with which the body of said iron is provided. Another recess 13 in the top of the iron engages a stem 14 extending upward from a side of said iron, and a clamp-nut 15 is run on said stem in opposition to said top. However

the top may be detachably secured to the body of the iron in various ways.

An air and gas mixer 16, a fuel-tank support 17 and the handle-bail 18 of the iron are fastened by screws 19, 19', to the top of the iron, and a rivet 20 may also be employed to connect said tank support with said top of the iron. The shape and disposition of the support 17, as shown in Fig. 4, is such as to dispose the fuel tank out of the way of the operator of the iron, said support and the handle-bail 18 being set on top lugs 19'' of said iron.

The preferably wooden handle 21 of the iron is hollow and engaged by the cylinder 22 of an ordinary hand air-pump that extends through eyes provided in the bail 18, the heads 23, 23', of said cylinder being in opposition to said bail to clamp the same against the opposing ends of the handle. The pump has direct tube connection 24 with the air-valve 25 of the fuel-tank 26, that is suitably secured on a support 17 and has the partly U-shaped tubular union 27 with the air and gas mixer 16 controlled by the usual needle valve 28, said tubular connection being a vaporizer. Each side of the air and gas mixer is provided with an air-intake port 29, and a burner-shell 30 in connection with said air and gas mixer is perforated at intervals longitudinally thereof to discharge the mixture opposite the bottom of the iron and under the baffle-plates 8, whereby when the mixture is ignited the greatest volume of heat is deflected upon said bottom of the iron and absorbed by the same and the lugs 6 and 7 thereof, whereby an economy of fuel results. The waste products of combustion find their way up between the baffle-plates and the adjacent walls of the iron to escape through side openings in said walls under the top aforesaid, the disposition and area of said openings being as herein shown or otherwise as may be found most suitable in practice.

From the foregoing, the advantage of the baffle-plates is obvious, and by having the air pump a permanent part of the iron it is always convenient to the operator and cannot be mislaid or lost.

I claim:—

1. A self-heating sad-iron having a hollow body provided with upwardly extending inner bottom lugs in paired series and at intervals longitudinally thereof, those in

one series of each pair alternating with those of the other series in the same pair, a horizontal baffle-plate superimposed on each series of the lugs clear of the walls of the iron, and a hydrocarbon burner in said iron arranged between the baffle plates to have its fuel-discharge openings below the same.

2. A self-heating sad-iron having a hollow body provided with upwardly extending inner bottom lugs in paired series at intervals longitudinally thereof, those in one series of each pair alternating with those of the other series of the same pair; independent horizontal baffle-plates detachably secured on the lugs clear of the walls of the iron, and a hydrocarbon burner in said iron arranged between the baffle-plates to have its fuel discharge openings below the same.

3. A self-heating sad-iron having a bail

provided at its ends with eyes, a hollow handle between the ends of the bail, an air-pump having the cylinder thereof extending through the bail-eyes and the handle, the heads of the cylinder being in opposition to said bail to clamp the same against the opposing ends of said handle; a fuel-tank supported in connection with the iron, an air-valve with which the tank is provided, and a tube connecting the pump and valve.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee in the county of Milwaukee and State of Wisconsin in the presence of two witnesses.

FREDERICK SETTE.

Witnesses:

N. E. OLIPHANT,  
M. E. DOWNEY.

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