S. J. BUGH.

SAD-IRON.

No. 189,602. Patented April 17, 1877.

Fig 1.

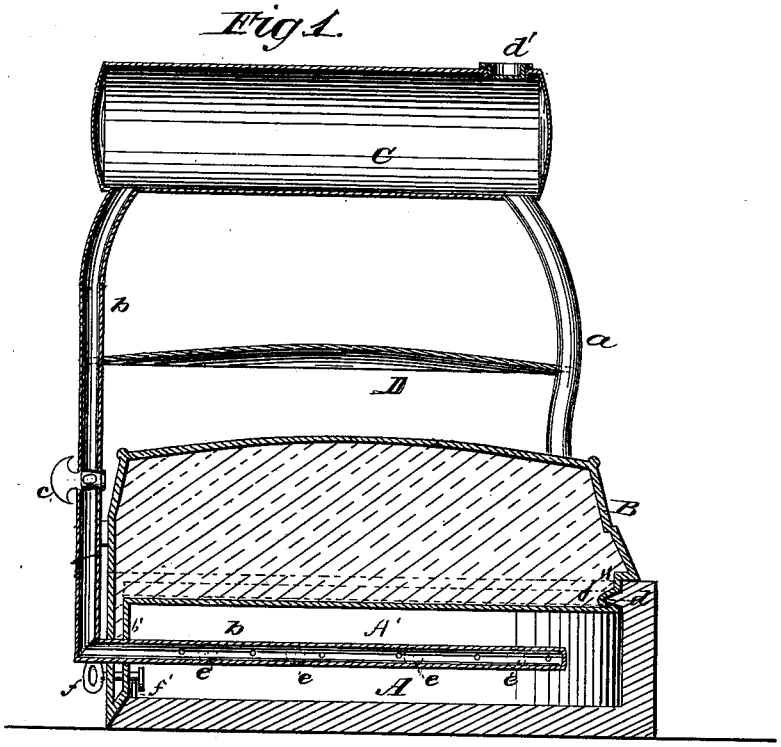
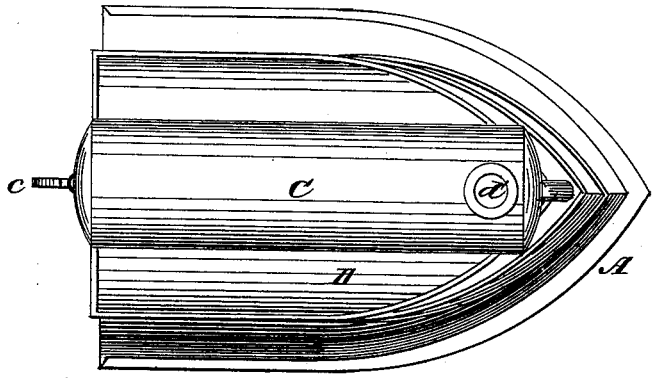



Fig. 2.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

SAMANTHA J. BUGH, OF ST. JOSEPH, MISSOURI.

## IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. **189,602**, dated April 17, 1877; application filed September 22, 1876.

*To all whom it may concern:*

Be it known that I, SAMANTHA J. BUGH, of St. Joseph, Buchanan county, Missouri, have invented a new and Improved Sad-Iron, of which the following is a specification:

Figure 1 is a longitudinal section, and Fig. 2 is a top view.

Similar letters of reference indicate corresponding parts.

My invention consists in the arrangement, in a sad-iron, of a removable bottom, between which and a non-conducting cover a chamber is formed, in which a perforated pipe is placed for burning gasoline. The said pipe leads from a cylindrical reservoir supported above the non-conducting cover which forms the handle.

A fender or reflector is placed below the reservoir to prevent its becoming heated, and a stop-cock is placed in the feeding-pipe to regulate the supply of gasoline.

A is a hollow bottom piece, provided with the internally-projecting rib *d*, which fits a corresponding groove in the cover B. The space between the part A and cover B forms a chamber, A′, into which the perforated pipe *b* projects centrally through a lip, *b′*, formed on the cover for closing the rear of the chamber. The pipe *b* passes upward and outside of the cover, and is connected with a cylindrical reservoir, C, and is provided with a stop-cock, *c*. The reservoir C forms the handle for the sad-iron, and is supported by the pipe *b* and rod *a*. *d′* is an aperture for filling the reservoir C that is closed by a screw-cap. D is a fender or reflector, attached to the tube *b* and rod *a* a short distance above the cover B, to prevent the reservoir C from becoming warm. The cover B is made either hollow or solid, and filled with a non-conductor of heat. The part A is provided with apertures *e*, (shown in dotted lines,) for the escape of smoke and for the admission of air to support the flame of the burning gasoline. A button, *f*, attached to the cover B engages with a lug formed on the part A to hold the parts together.

The sad-iron may be used with or without a wick in the tube *b*.

The advantages claimed for this invention are that it is self-heating, saving the usual travel to and from the stove. It is economical, it being much less expensive to maintain the heat by the combustion of gasoline in the sad-iron than by a fire or stove.

The iron may be made with two faces, and arranged to revolve so as to present either face to the cloth while the other is being heated above the flame.

A reflector may also be attached to the cover B for throwing the heat down upon the iron.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The cover B, provided with lip *b′* and groove *d″*, in combination with the part A having rib *d* and lug *f′*, as and for the purpose set forth.

2. A sad-iron, consisting essentially of bottom A, having rib *d*, cover B, having lip *b′* and groove *d″*, the handle-reservoir C, the rod *a*, the tube *b*, and the fender D, as shown and described.

SAMANTHA J. BUGH.

Witnesses:

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