

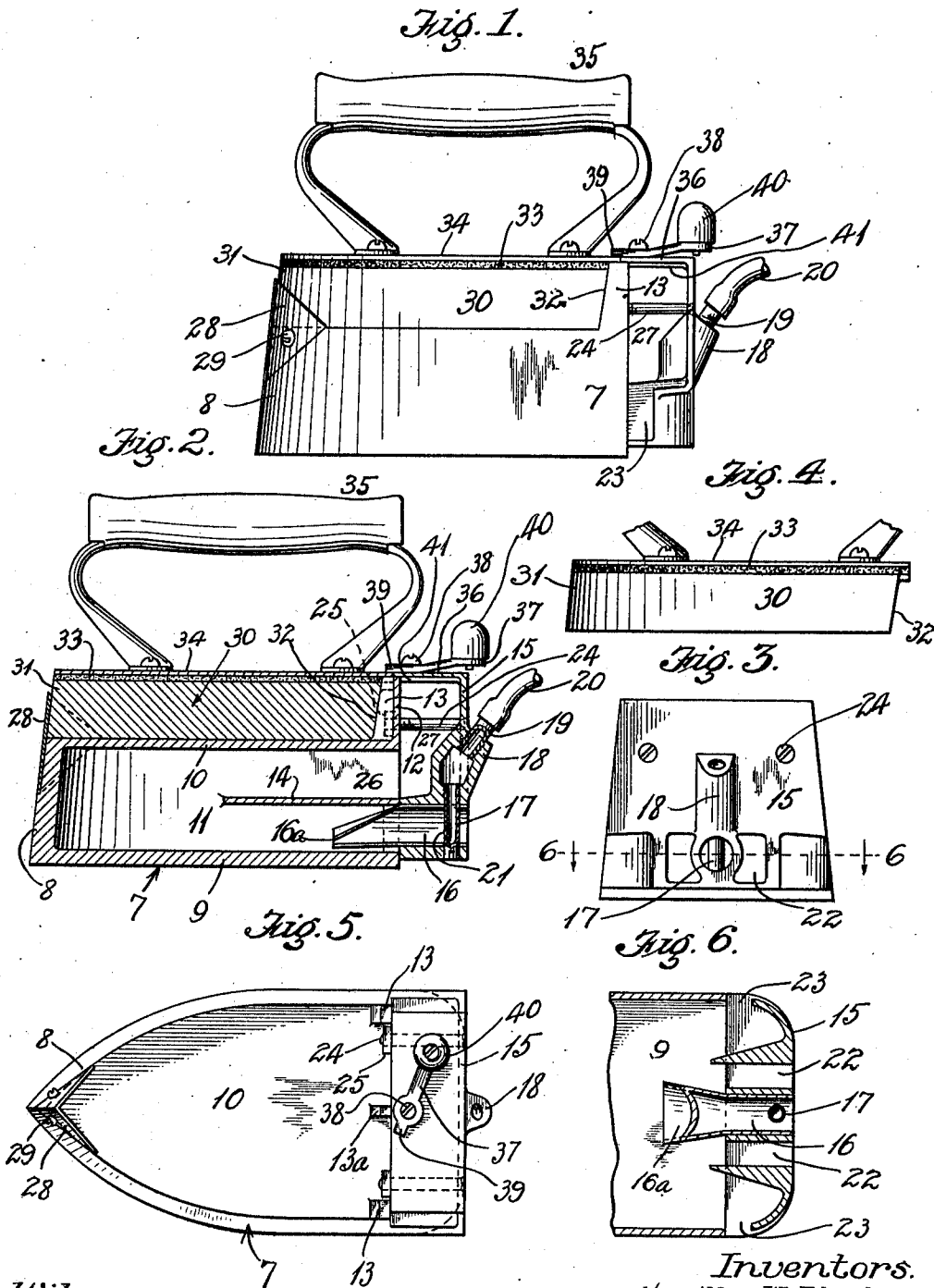
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SAD IRON.

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Witnesses.

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UNITED STATES PATENT OFFICE.

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SAD-IRON.

989,157.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, HAMILTON W. JOHNSTON and CHRISTIAN J. HECKMANN, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to a sad iron and particularly to self-heating sad irons.

The object of the invention is to produce an iron of simple construction which will be self-heating and which can be used for heavy ironing, or for light work. To this end the iron comprises a body, or main iron, to which an auxiliary iron is detachably secured and this auxiliary iron is provided with a handle. When the auxiliary iron is secured to the main iron, the device is adapted for heavy ironing work and when the auxiliary iron is detached from the main iron it constitutes a light iron for ironing delicate articles.

In the accompanying drawing forming a part of this specification, Figure 1 is a side elevation of the complete iron. Fig. 2 is a longitudinal vertical section through the iron, certain parts being shown in elevation. Fig. 3 is a rear elevation in the butt of the iron, the butt of the auxiliary being removed. Fig. 4 is a side elevation showing the lower part of the auxiliary iron removed from the main iron, and showing parts of the handle broken away. Fig. 5 is a plan of the main iron with the auxiliary iron removed. Fig. 6 is a horizontal section taken through the butt end of the main iron on the line 6-6 of Fig. 3.

Referring more particularly to the parts, 7 represents the main iron which is tapered forwardly to form a pointed toe 8 and presenting a horizontal bottom plate 9 which is adapted to be applied to the ironing board. It is formed also with a cover plate 10 and is hollow so as to form a heating chamber 11 on its interior. At the heel the main iron 7 is formed with an upwardly extended flange 12, having inclined ribs 13, 13^a on its forward side; the ribs 13 constitute extensions of the side walls of the main iron 7 as indicated in Fig. 1, while the rib 13^a is disposed near the middle of the flange.

Chamber 11 is partly divided by a horizontal baffle wall 14 which extends forwardly from the heel of the iron as shown in Fig.

2. On the heel of the main iron 7 a butt 15 is attached and in the lower portion of this butt a tubular nozzle 16 is mounted, the rear end of said nozzle 16 being open to the atmosphere and the inner end being formed into a burner 16^a at which a flame is formed in the chamber 11, under the baffle 14. Passing vertically through nozzle 16 a small tubular thimble 17 is mounted and the upper end thereof communicates with the interior of inlet boss 18. In this boss 18 a nipple 19 is attached and on the nipple a flexible hose 20 is secured which conducts gas to the iron.

The thimble 17 is in the form of a screw which is inserted through the lower end of the butt as indicated, and on its forward side, the thimble 17 is provided with a small opening or vent 21 which admits the gas in a forward direction into the nozzle 16 as indicated in Fig. 6. The butt 15 is provided with draft openings 22 disposed at each side of the nozzle 16 to admit air to the flame, and beyond these openings 22 side openings 23 are formed for a similar purpose. The butt is held in position at the heel of the main iron by means of screw bolts 24 having counter sunk heads on the rear of the butt and having nuts 25 applied to their inner ends and seating against the forward side of the flange 12 as indicated in Fig. 2.

By reason of the baffle plate 14 the space above the baffle forms a duct 26 for conducting the gases of combustion rearwardly and they escape at the sides of the body which are open as indicated at 27 in Fig. 1. On the toe 8 of the main iron 7 a socket 28 is formed by means of a curved plate or saddle secured by means of screws 29 as indicated. Attention is called to the fact that the forward edge of the toe 8 inclines rearwardly in an upward direction and this feature is important for the reason that it assists in attaching the auxiliary iron to the main iron.

The auxiliary iron 30 has a solid body with a tapered toe 31 at its forward end and having an inclined rear face 32, as shown. This auxiliary iron is adapted to seat upon the upper face of the main iron, as indicated in Figs. 1 and 2 with the forward end of the toe 31 projecting into the socket or saddle 28 and with the rear face 32 of the auxiliary iron seating against ribs 13, and 13^a. In this connection it should be understood

that the nose 31 of the auxiliary iron is tapered or inclined at its forward edge in the same manner as the nose 8 so that when the auxiliary iron is applied to the main iron the nose 31 will fit very snugly in the socket 28.

On the upper side of the auxiliary iron 30 a nonconductor 33 in the form of a sheet of asbestos or similar material is applied and over this nonconducting sheet a handle plate 34 is attached. To this handle plate a handle 35 is secured. As shown in Fig. 1, the lower edge of the handle plate 34 is flush with the upper ends of the ribs 13 and projects over the upper ends of the ribs so as to abut against the upper horizontal wall 36 of the butt 15. When the auxiliary iron is in position the upper face of the handle plate 34 is flush with the upper face of the wall 36. In order to lock the auxiliary iron to the main iron we provide a locking lever 37 which is secured to the wall 36 by a pivot screw 38 and the forward end of this lever forms a toe 39 which is arranged to project over the rear edge of the plate 34 and this keeps the rear end of the auxiliary iron from rising out of its seat. This lever is offset upwardly and provided with a suitable knob or handle 40 for operating it.

On the under side of the upper wall 36 of the body 15 stop ribs 41 are provided, the forward ends of which abut against the flange 12 as indicated in Fig. 2, and the wall 36 projects over the upper edge of the flange so that a seat is formed for the butt at the rear end of the main iron.

In using the iron, if the lever 37 is swung around in the position shown in Fig. 5, the auxiliary iron can be applied to the main iron by hooking the toe 31 in the socket 28 and pressing it down upon its seat on the main iron; the lever 37 can then be swung around to the position shown in Fig. 1, so that the toe 39 projects over the rear edge of the plate 34 and holds the auxiliary iron in position. The flame maintains the main iron heated and enables the entire device to be used for the purposes of a heavy sad iron. For ironing light or delicate articles

the auxiliary iron can be used and this iron will always be maintained hot by the main iron 7. In this way the main iron 7 is made to perform a double function, operating either as a heater for the auxiliary iron or as a base for the heavy iron to do heavy work.

Having described our invention what we claim as new and desire to secure by Letters Patent is:

1. An ironing device having an auxiliary iron with a handle for applying the same to the ironing board, a main iron having a recessed seat on the upper side thereof to receive said auxiliary iron, means for detachably securing said auxiliary iron on said seat, a burner in said main iron for heating both irons simultaneously, and a flexible fuel supply hose connected with said main iron.

2. An ironing device comprising an auxiliary iron with a handle, said auxiliary iron having a projecting toe, a main iron having a seat on the upper side to receive said auxiliary iron, said main iron having a socket receiving said toe, means for detachably securing said auxiliary iron to said main iron at a point removed from said toe, and means for heating said main iron.

3. A sad iron, comprising a main iron consisting of a hollow body divided into an upper and lower chamber, a gas burner mounted in the lower chamber and adapted to direct its flame forwardly into said lower chamber thence upwardly and out through the upper chamber, said hollow body being closed at its forward end and opened at its rear end, and an auxiliary iron detachably secured to said main iron, said auxiliary iron adapted to be heated simultaneously with the main iron.

In witness that we claim the foregoing we have hereunto subscribed our names this 8th day of April, 1910.

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Witnesses:

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