July 10, 1934. B. MALAMUD 1,966,036

SADIRON HOLDER

Filed April 28, 1933

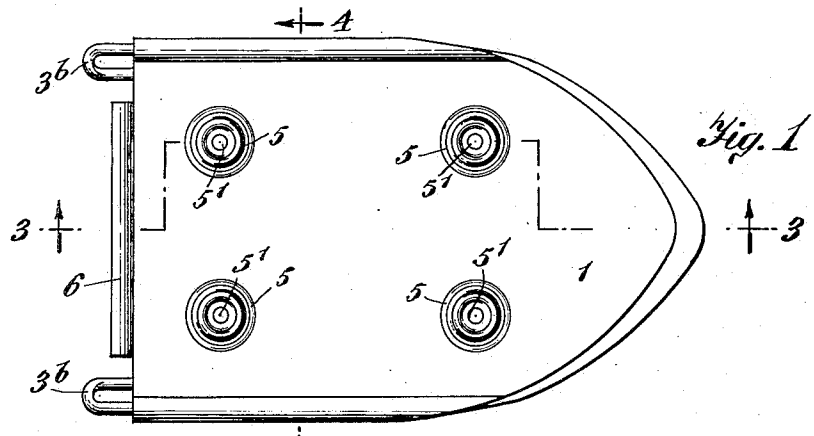


Fig. 1

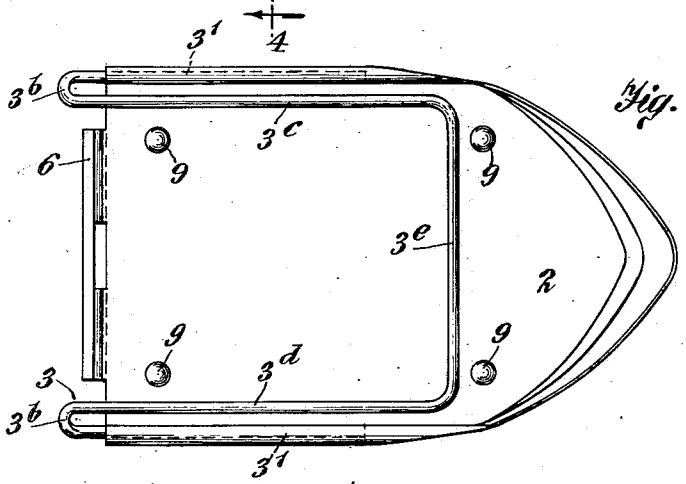


Fig. 2

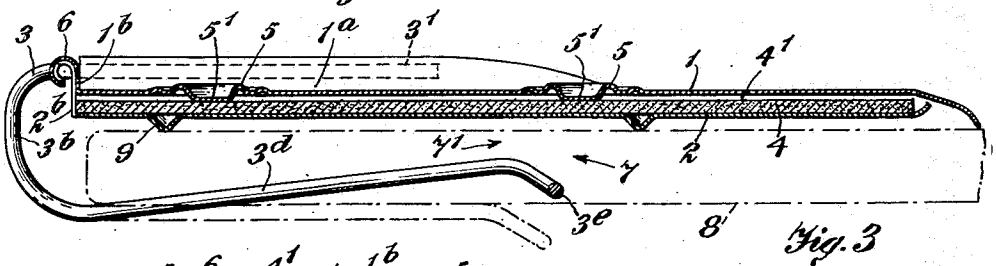


Fig. 3

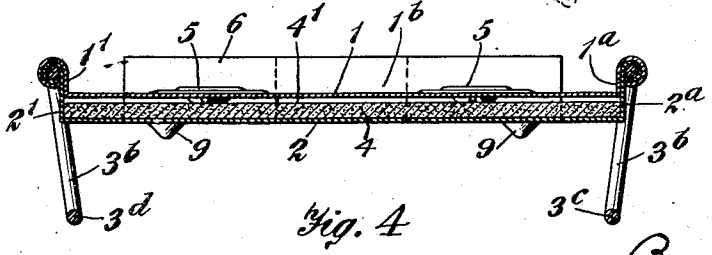


Fig. 4

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Patented July 10, 1934 1,966,036

UNITED STATES PATENT OFFICE

1,966,036

SADIRON HOLDER

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Application April 28, 1933, Serial No. 668,298

3 Claims. (Cl. 68—27)

This invention relates to improvements in sad-iron holders.

One of the objects of this invention is to produce a holder for sad-irons which will have a neat, trim and finished appearance, which can be manufactured at an economical price and which will effectively perform its functions of supporting and confining a heated sad-iron without transmitting the heat thereof to the ironing board.

Another object of my invention is to provide a construction of holder which may be made of relatively thin-gauge metal-plates and still will have a high degree of rigidity and stiffness.

Still another object of my invention is to provide a holder of the type under consideration with a wire-spring element which will provide an increased grip and will effectively and securely fasten the holder to the ironing board, and a part of which will also function as a stiffening element and frame member for said holder.

Still another object of my invention is to produce a construction of holder which may be fabricated by a minimum number of operations.

Still another object of my invention is to produce a holder from a pair of top and bottom metal plates which are channeled to provide flanges at opposite edges and to cause one of such channeled plates to fit within the other so that the flanges of said pair of channeled plates will be in abutment, and to produce an interlocking engagement between such abutting flanges in a roll or bead at the ends of such flanges so as to provide an effective, stiff and rigid side-stop for the iron and a neat finish for the edges of the plates.

Still another object of my invention is to provide a construction in which such beaded-flanges extend above the normal plane of the body of the plates and preferably are so interlocked together about the opposite terminal ends of a wire-spring which further stiffens the construction and is itself securely anchored in place.

Still another object of my invention is to provide at the rear of the plate another interlocking bead-roll at the top of the vertical or upright flange formed at said rear edge so as to provide a rear stop for the iron and a neat finish for the holder.

Still another object of my invention is, in a holder of the type specified, to provide an intermediate layer of heat-insulating material, such as asbestos, which will be completely enclosed and unperforated; also to provide a heat-insulating air space within the holder above said asbestos layer.

Still another object of my invention is to provide, in the bottom plate, a plurality of depressed teats adapted to cooperate with the legs of a spring spaced therefrom to provide a tight frictional grip on an ironing board between the bottom plate containing such teats at one side thereof and the wire-spring on the other.

With these and other objects in view, the invention comprises the combination of members and arrangement of parts so combined as to coact and cooperate with each other in the performance of the functions and the accomplishment of the results herein contemplated, and comprises in one of its adaptions, the species or preferred form illustrated in the accompanying drawing, in which:—

Fig. 1 is a view in plan of a sad-iron holder embodying my invention;

Fig. 2 is a bottom view of the holder shown in Fig. 1;

Fig. 3 is a longitudinal section on the line 3—3 of Fig. 1; and

Fig. 4 is a transverse section on the line 4—4 of Fig. 1.

Referring now to this drawing which illustrates a preferred embodiment of my invention, 1 indicates a top member or plate and 2 indicates a bottom member or plate which together provide a pair of metal plates, and each of which is provided at its side edges (see particularly Fig. 4) with vertically-disposed flanges $1'$—1^a and $2'$—2^a. The top member is adapted to fit within the bottom member 2, to have its side-flanges abutting against the side flanges $2'$—2^a of said bottom member and to be spaced therefrom and also to have a layer 4 of insulating material, such as asbestos disposed between such members. The pair of members 1 and 2 thus disposed then have their abutting flanges rolled together and around the free ends 3′ of a wire-spring 3, thus forming beads or rolls at the upper ends of said flanges. By such bead or roll formation I securely fasten the upper and lower members together and to the spring. This beading or rolling operation is preferably accomplished by dies with suitable pressure, hydraulic or otherwise. The ends of the spring 3 will thus form a skeleton or frame for the holder and a neat connection or fastening of the pair of plate members and spring will be accomplished. This method obviously results in an extremely economical method of simultaneously fastening together the three main parts of the device, namely the top

plate 1, bottom plate 2 and the ends of the wire-spring 3 and the fastening of these parts simultaneously encloses and fastens between the said top and bottom plates the said layer or sheet 4, of asbestos.

In the preferred embodiment of my invention I also provide at the rear edge of the plate members upright flanges 1^b—2^b abutting each other and furthermore provide for an interlocking connection between these two flanges by rolling one of the same over the other to form on said flanges a bead 6, which will stiffen said flanges to act as an effective rear sad-iron stop for the holder. This operation is preferably accomplished simultaneously with the rolling of the side beads hereinabove specified.

In said preferred embodiment of my invention, the upper plate 1 is provided with a series of embossed portions, 5, each having an outer ring or edge part raised above the surface of the plate, to provide a raised stand for the iron, and also having central portions 5', each of which is depressed below the bottom surface of the plate member 1 to provide spacing elements by which the said plate is spaced from the intermediate layer of asbestos 4 so as to produce an air space 4' between said layer of asbestos and the bottom plate.

It will thus be seen that a sad-iron mounted on the holder will be raised from the surface of the top plate, that the said top plate is unperforated and that the layer of asbestos is likewise unperforated so that this construction will provide effective heat-insulation between the iron and an ironing board 8, shown by the dotted line in Fig. 3.

In Fig. 3, the wire-spring 3 has the ends 3' thereof, as aforesaid, anchored in the side rolls of the holder and is provided with an intermediate portion 3^b comprising side legs 3c—3*d* which are connected together by transverse leg 3^e and which is turned beneath the holder to extend forwardly thereunder to a position adjacent to the pointed front end of the said holder. Said intermediate spring portion is curved upwardly for part of its length and then curved downwardly adjacent to the transverse leg 3^e so as to provide between the bottom plate of the holder and said intermediate spring portion an expanded mouth 7 and a restricted neck 7', within which the end of an ironing board, such as indicated by dotted line 8, is adapted to be inserted and positioned.

While a heavy wire-spring of the type specified disposed beneath a flat holder plate will retain the holder on the board, it is desirable that the holder be so securely mounted that it will not slip off when the iron is slid from the board over the front part of the holder. For this purpose I provide means to produce an increased effective grip which will hold a holder firmly on the ironing board under such circumstances, and in order to increase this grip I have embossed in the under surface of my plate member 2 a series of depressed teats 9 which are disposed in said plate in such position as to cooperate with the legs 3^c—3^d—3^e of the spring to enable the production of a tight grip between the holder and the ironing board. As illustrated four of these teats are embossed in the plate 2 to project from the under surface thereof and are disposed in an area of said plate substantially in alignment with the line of pressure of the legs of the spring, so that pressure applied by the legs of the spring will be transmitted through an ironing board or the like to these teats which because of their rounded points will provide, with the spring, a tight frictional grip on a board on which said holder is mounted.

It will be seen from the above that I have provided a holder which will have a neat, trim and finished appearance; which can be manufactured at an economical price; which will effectively perform its functions of supporting a heated sad-iron without transmitting the heat thereof to the ironing board; which may be made of sufficient ridigity with thin-gauge metal plates because its construction gives it a high degree of rigidity or stiffness; which will provide a structure that may be fabricated by a minimum amount of operations; which may be quickly mounted on an ironing board to have a non-slipping and firm grip thereon and also that I have provided a construction which will be made of a minimum number of parts which may be securely interlocked and fastened to each other.

Having described my invention, I claim:—

1. A sad-iron holder embodying, in combination, a pair of metal plates composed of a top plate and a bottom plate and having upright flanges in abutment, said upright flanges having an interlocking connection, a layer of asbestos disposed between said plates in abutment with said bottom plate, and the upper plate being provided with unperforated embossed rings having raised portions adapted to form a raised stand for the iron and depressed portions adapted to seat on the asbestos layer and to provide an air space between said asbestos layer and the surface of the top plate.

2. A sad-iron holder embodying spaced top and bottom metal plates tapering at their forward ends and having parallel side edges extending rearwardly from said tapered end to rear edges at right angles to said parallel sides, each of said parallel side edges having the margins thereof rolled together into a reinforcing bead, and the margin of said rear edge being bent to provide a stop element, in combination with a heavy spring clamp extending from the rear end only of said holder, said clamp having end portions extending within the rear ends of said marginal reinforcing beads for a major portion of the length thereof, a body portion provided with legs extending forwardly beneath the bottom plate to a position adjacent to the tapering portions of said plates, said legs being bent to provide an expanded mouth portion and a restricted neck portion, said spring ends within said reinforcing rolls forming with said forwardly extending legs a double-legged spring-clamp of U-shaped conformation, whereby sufficient pressure to produce a tight grip on one edge of an ironing board by a single clamp may be applied.

3. A sad-iron holder embodying spaced top and bottom metal plates tapering at their forward ends and having parallel side edges extending rearwardly from said tapered end to rear edges at right angles to said parallel sides, each of said parallel side edges having the margins thereof rolled together into a reinforcing bead, and the margin of said rear edge being bent to provide a stop element, in combination with a heavy spring clamp extending from the rear end only of said holder, said clamp having end portions extending within the rear ends of said marginal reinforcing beads for a major portion of the length thereof, a body portion provided with legs extending forwardly beneath the bottom plate to a position adjacent to the tapering portions of said

plates, said legs being bent to provide an expanded mouth portion and a restricted neck portion, said spring ends within said reinforcing rolls forming with said forwardly extending legs a double-legged spring-clamp of U-shaped conformation, whereby sufficient pressure to produce a tight grip on one edge of an ironing board by a single clamp may be applied, and the said bottom plate also having embossed therein depressed teats adapted to cooperate with said wire spring to increase the tight grip upon said edge of an ironing board.

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