Aug. 28, 1934. A. D. OLDS 1,971,759

FLATIRON

Filed Nov. 20, 1933

Fig 1

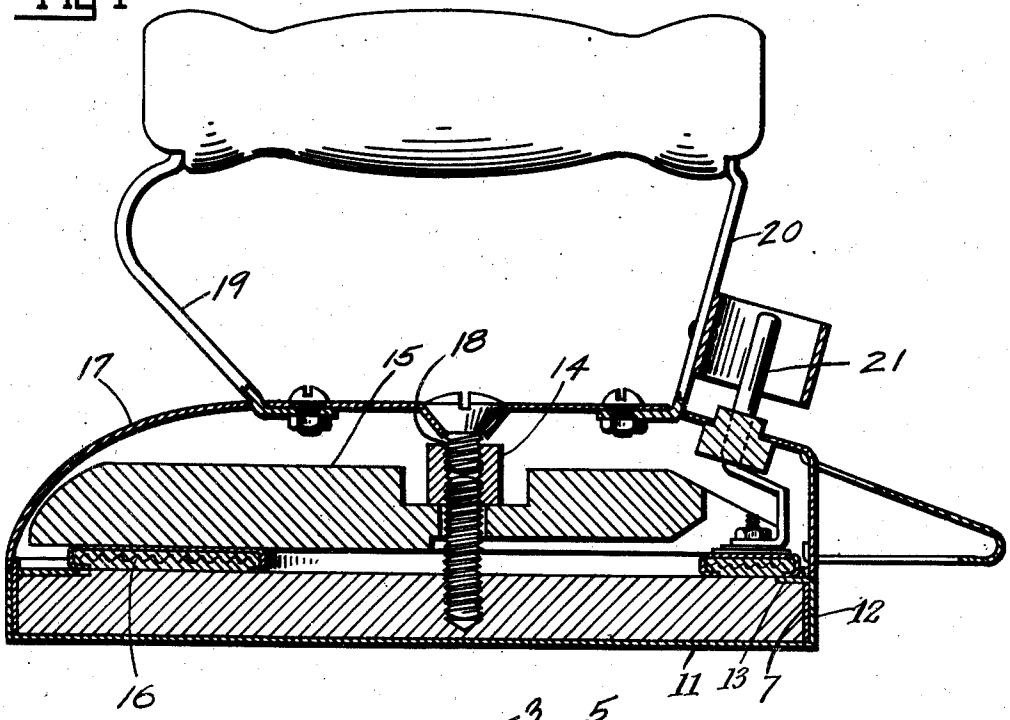
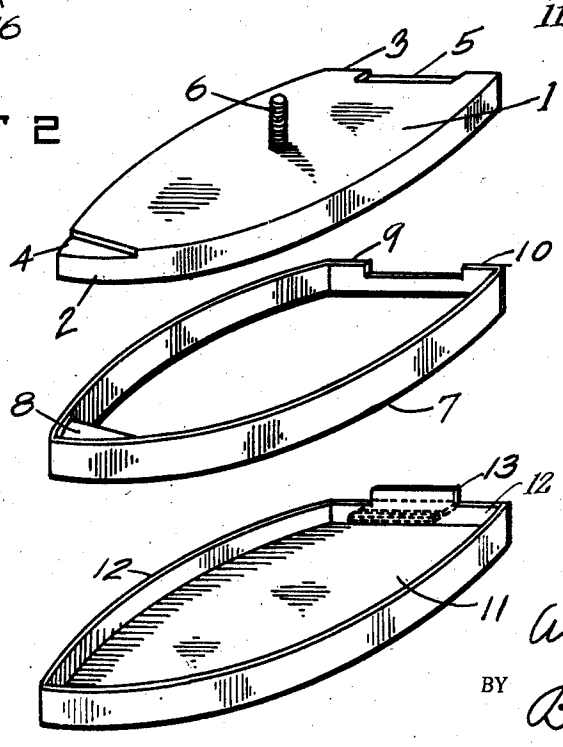


Fig 2



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FLATIRON

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3 Claims. (Cl. 68—26)

This invention relates to sole plates for flat irons. It is particularly designed to use in connection with electric irons and the primary object of the invention is to provide an inexpensive, easily constructed, readily applied sole plate. Of course, sole plates for flat irons must have considerable heat accumulating capacity, so it has generally been practiced to make a relatively thick sole plate of suitable material and finished so that it will have a smooth surface. I have found that an efficient sole plate can be made having a core of unfinished, inexpensive metal with a covering or sheath of finished metal such as so-called "stainless steel" or other non-corrosive metal. Such a sole plate is inexpensive yet has all the desirable qualities necessary to a device of this class.

The novelty of the invention will be understood by reference to the following description in connection with the accompanying drawing in which:

Figure 1 is a vertical sectional view through a flat iron constructed in accordance with my invention, and

Figure 2 is a disassociated view of several parts of the sole plate.

In constructing the sole plate, a core 1 is provided, of proper shape, having a toe 2 and heel 3. The toe 2 has a reduced portion 4 and a reduced portion 5 at the heel. Cast in the core 1 is an upstanding screw 6 to be engaged by a nut or similar member for fastening the sole plate to the iron. The core is received in a band 7 conforming to the shape of the core and at the toe portion is a fillet or insert 8 to fit over the reduced portion 4. The heel portion of the band is formed by spacing the ends 9 and 10 adjacent to the reduced portion 5.

The band and the core are received in the sheathing 11. The sheathing consists of non-corrosive sheet metal with a flange 12 about its perimeter, having at the heel portion an upstanding lip 13 so that when the core and band are received in the recess of the sheathing, the lip can be bent over the reduced portion 5 of the core to hold it in place. The band can be spot welded to the sheathing in an appropriate manner. The rolled or finished sheet metal will provide a smooth non-corrosive surface requiring no special finish. The sole plate may be fastened to the body of the iron in any well-known manner, for example, by a nut 14 receiving the screw pin 6 and engaging the pressure pad 15 of the iron which screws the heating element 16 between it and the sole plate. The cover 17 of the iron is fastened to the nut by a headed bolt 18. The handle bow members 19 and 20 are secured to the cover plate and the plug socket 21 is connected to the heating element in any well-known manner. The construction of the iron is immaterial since the invention is confined to the sole plate as above indicated.

The band 7 in an assembled position is slightly higher than the wall 12 of the sole plate so that the cover shell 17 snugly embraces the top of the band and rests on the shoulder formed by the top of the outside wall of the band and the top edge of the sole shell, the band receiving the core 1 of the sole plate. By reason of the fact that it holds the core and permits the cover shell 17 to be easily applied, assembly is facilitated and there is an assistance in holding the parts in assembled relation. By this means the production costs are held at a minimum.

What I claim as new is:

1. An electric iron comprising a sole plate having a core and a sheathing for the core having side walls in spaced relation therewith, a band surrounding the core and having its upper edge extending above the core and the side wall of the sheathing to form a shoulder at the top edge of the sheathing and the top of the band, a heater connected to the sole plate and a cover shell embracing the top of the band and resting upon the shoulder.

2. An electric iron comprising a sole plate consisting of a core provided with a cut out portion at the toe and a recessed portion at the heel and a sheathing surrounding the core, a band interposed between the side wall of the sheathing and the edge of the core and extending above the core in the side wall of the sheathing, means on the band for engaging the cut out portion of the toe, means on the sheathing over-lapping a notched portion in the heel of the core, a heater for the core and a cover shell snugly embracing the upper portion of the band and resting upon the shoulder formed by the edge of the sheathing and the band.

3. An electric iron comprising a sole plate core, a band about the sole plate core engaging the toe thereof, a sheathing member receiving the band and the bottom of the core, the side wall of the sheathing being of less height than the height of the band, means on the band for fastening the same to the core, and means for heating the core, the cover having an edge surrounding the band and resting upon the upper edge of the side wall of the sole plate.

AMBROSE D. OLDS.