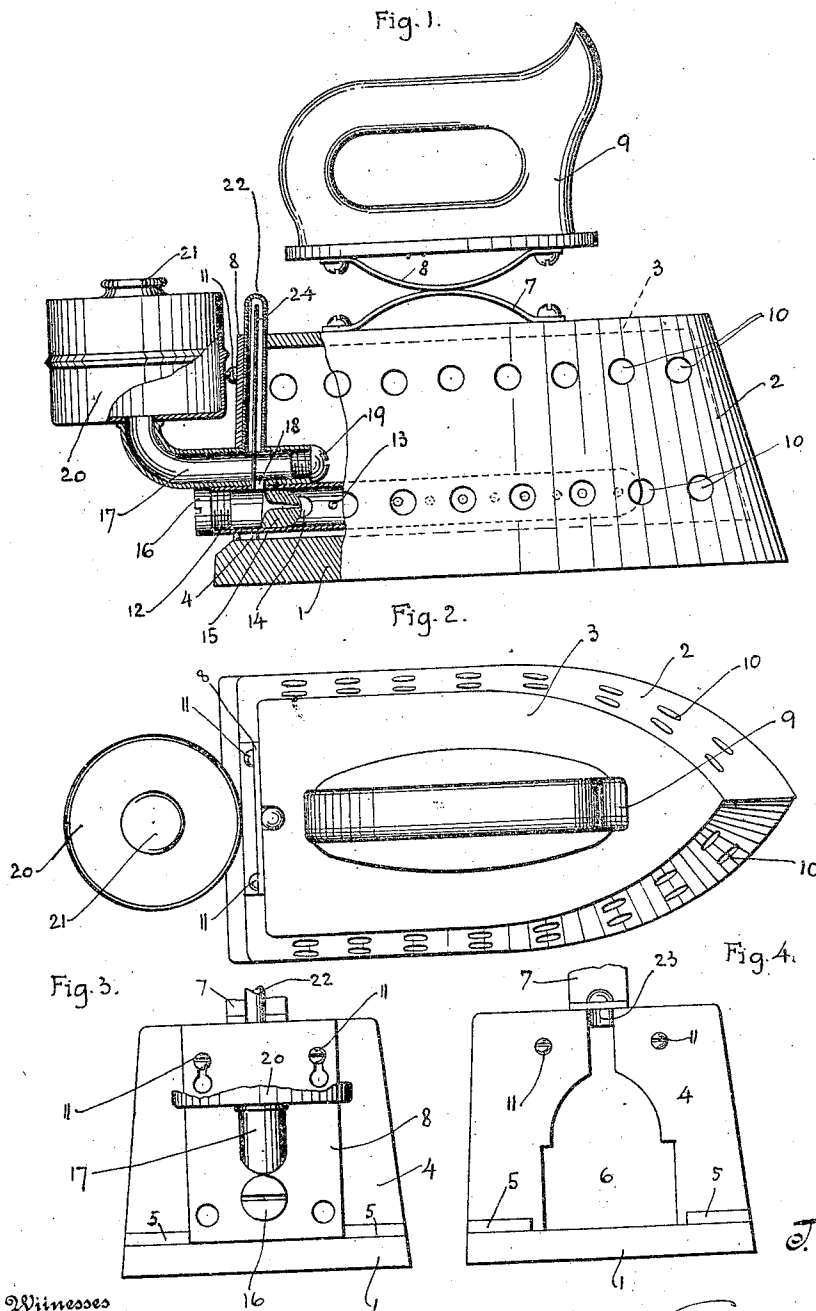


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IRON.
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UNITED STATES PATENT OFFICE.

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IRON

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To all whom it may concern:

Be it known that I, JOSEPH MARCHEK, a subject of the King of Hungary, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Irons, of which the following is a specification, reference being had thereir to the accompanying drawing.

This invention relates to sad irons, and the invention has for its object to provide novel means in connection with an iron for heating the same independent of any other source than that carried by the iron.

My invention aims to provide a sad iron with a detachable heater, wherein alcohol or a similar fluid is used as a heating medium. To this end, I have devised a hollow sad iron into which projects a burner, carried by a detachable plate having a reservoir adapted to contain a fluid, which when ignited at the burner is adapted to thoroughly heat the iron.

The detail construction entering into my invention will be hereinafter described and claimed, and reference will now be had to the drawing forming a part of this application wherein there is illustrated the preferred embodiments of the invention, but it is to be understood that the detail construction thereof can be varied or changed without departing from the spirit and scope of the invention.

In the drawings:—Figure 1 is a side elevation of an iron constructed in accordance with my invention, partly broken away and partly in section, Fig. 2 is a plan of the same, Fig. 3 is a rear elevation of the iron, with the detachable burner partly broken away, and Fig. 4 is a rear elevation of the iron with the burner detached.

In the accompanying drawings, I have illustrated an iron casing comprising a base 1, inclined walls 2, a top plate 3 and a rear wall 4, said inclined walls being of a less length than the base 1, while the rear wall 4 is provided with side lugs 5 extending to the rear end of the base 1, said rear wall being provided with an opening 6. Secured to the top plate 3 is a bow spring 7 and soldered or otherwise connected to said spring is another spring 8 supporting a handle 9. The inclined walls 2 are provided with air openings 10, whereby air can be admitted to the interior of the iron to insure a proper combustion therein.

The rear wall 4 is provided with two screws or headed pins 11 and detachably mounted upon said pins is a plate 8 adapted to rest between the lugs 5 of the rear wall 4. The lower end of the plate 8 supports a longitudinal burner casing 12 having perforations 13, an ignition opening 14, a nipple 15 and a plug 16 for the rear end of said burner casing, said plug being detachable whereby the interior of the casing can be cleansed. The plate 8 directly above the burner casing 12 is provided with an inlet pipe 17 communicating with the burner casing 12 through the medium of registering openings 18 formed in said pipe and said casing adjacent to the nipple 15. The forward end of the pipe 17 is plugged by a screw or plug 19, while the outer end thereof is bent upwardly and supports a reservoir 20 adapted to contain alcohol or a similar inflammable fluid. The reservoir 20 is filled through the medium of a detachable cap 21 carried by the top of said reservoir.

Secured to the inner side of the plate 8 and communicating with the pipe 17 is a vertical tube 22, said tube extending above the top plate 3 of the iron, and said top plate is cut away as at 23 to provide clearance for the tube. The upper end of the tube 22 is closed and in said tube is a vertical transverse partition 24, said partition extending downwardly into the opening 18 of the pipe 17 and the burner casing 12.

In operation, the alcohol or inflammable fluid contained within the reservoir 20 flows through the pipe 17 into the tube 22 and over the upper end of the partition 24, the fluid passing downwardly again through the inner end of the pipe 17, through the openings 18, into the casing 12, the fluid then passing through the nipple 15 where the fluid is ignited and the flame projected forwardly into the burner casing 12 to thoroughly heat the plate 1 and the inclined walls 2 adjacent to said plate. By inserting a lighted match into the air openings 10 adjacent to the ignition opening 14, the alcohol ejected by the nipple 15 can be easily ignited. After the reservoir 20 is filled whereby the alcohol flows over the top of the partition 24 and the tube 22, and is ignited, a siphonic action is established which causes the alcohol to be continuously fed to the burner casing 12 until the contents of the reservoir 20 have been exhausted. By removing the plate 8 and the parts carried thereby,

the interior of the iron can be easily cleaned. Since the burner casing 12 protects the end of the nipple 15, it is impossible for a "flash back" to take place that would ignite the contents of the reservoir 20 and cause the same to be destroyed.

Having now described my invention what I claim as new, is:—

1. A sad iron of the type described comprising a casing having a base plate, inclined walls, a top plate and a rear wall, said wall having an opening formed therein, a handle carried by said top plate, said inclined walls having air openings formed therein, a plate detachably mounted upon the rear wall, a burner casing arranged in said plate and adapted to protrude into said casing, said casing having perforations formed therein, a nipple located in said casing in advance of said perforations, a pipe arranged in said rear plate and communicating with said casing, a reservoir carried by said pipe, a tube carried by said rear plate and communicating with said pipe, a vertical partition arranged in said tube, projecting through said pipe and extending into said casing in a plane in advance of the plate of the nipple, and plugs carried by said casing and said

pipe to permit of easy access being had to the interior of said casing and said pipe, substantially as described.

2. In a sad iron, the combination with an iron casing, having air openings formed therein, a handle carried by said casing, a plate detachably connected to the rear end of said casing, a burner casing carried by said plate and extending into the first mentioned casing and provided with a plurality of perforations, a pipe carried by said plate, said pipe and said burner casing each provided with an opening, said openings registering with each other, a nipple arranged in a boiler casing and rearwardly of said opening, a reservoir carried by said pipe, a tube carried by said plate and communicating with said pipe, and a partition arranged in said tube and extending through said pipe and into the opening of said burner casing, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

JOSEPH MARCHET.

Witnesses:

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