(No Model.)

J. F. BLESS.

SAD IRON.

No. 590,958. Patented Oct. 5, 1897.

Fig. 1.

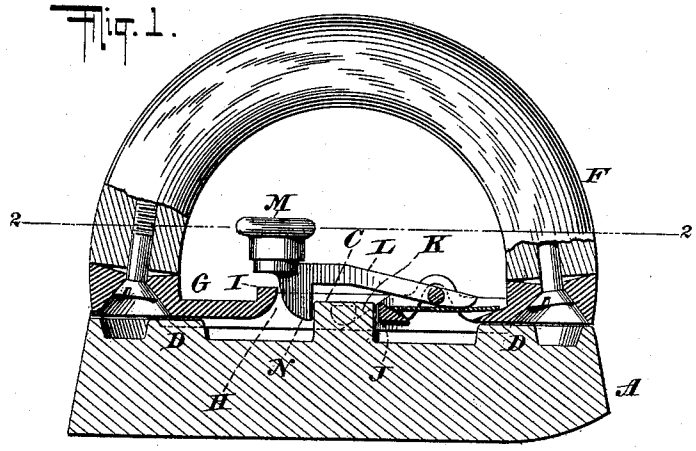


Fig. 2.

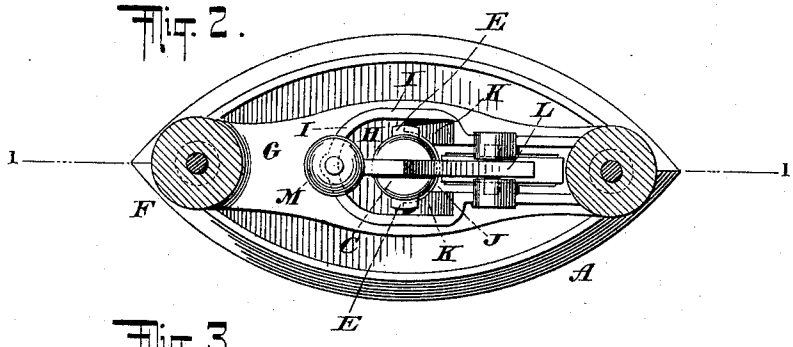


Fig. 3.

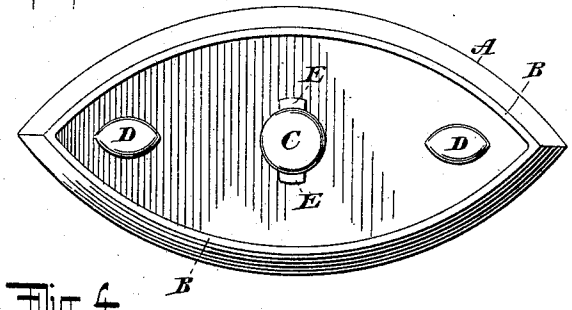
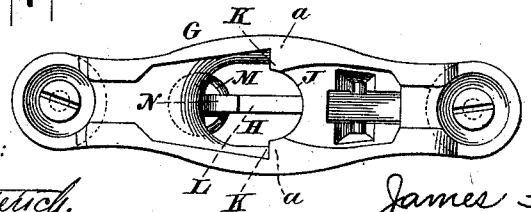


Fig. 4.



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UNITED STATES PATENT OFFICE.

JAMES F. BLESS, OF NEWARK, NEW JERSEY.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 590,958, dated October 5, 1897.

Application filed October 30, 1896. Serial No. 610,531. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. BLESS, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification.

The invention relates to improvements in sad-irons, and particularly to the class of sad-irons having detachable handles.

The object of the invention is to provide simple, durable, and more desirable means for effectually securing the handle to the body of the iron and permitting of the convenient detachment of said handle. A serious general objection to sad-irons having detachable handles is that the handle is liable to twist or turn axially upon the body of the iron and at times permit of the escape of the said body from the handle.

The object of my present invention is to absolutely prevent the axial turning or twisting of the handle upon the body of the iron and to provide means of attachment which, while permitting the handle to be conveniently secured in proper alinement to the body of the iron, will prevent the latter under any and all circumstances from becoming accidentally detached from the handle, and in carrying out my invention I provide means which are entirely effective, durable, and inexpensive of manufacture.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which—

Figure 1 is a central vertical longitudinal section through a sad-iron constructed in accordance with and embodying the invention, the section being on the dotted line 1 1 of Fig. 2. Fig. 2 is a transverse section of same on the dotted line 2 2 of Fig. 1. Fig. 3 is a detached top view of the sad-iron, the handle being omitted; and Fig. 4 is a bottom view of the handle and plate carried thereby.

In the drawings, A designates the body of the sad-iron, which body is of usual construction except as to its upper surface, which is formed with the central stud C and end oval studs D D. The end studs D D have heretofore been employed in sad-irons and are illustrated in Letters Patent of the United States granted to me March 6, 1888, No. 379,044, for a sad-iron with removable handle. The studs D D are in line with the length of the body of the iron and with the center of the stud C, and the said studs D D or equivalent means will in this iron be used in connection with the handle-plate hereinafter referred to. The stud C is integral with the body of the iron and is formed with the laterally-extending projections or lugs E E, which are integral with the stud C and with the body of the iron. The general form of the stud C is circular in horizontal section, and, as may be observed by the dotted line in Fig. 1, the lugs E E project outward from the upper portion of the stud C and above the upper surface of the iron A, leaving a definite space between the lower edges of said lugs and the upper surface of the body of the iron. The body of the iron, the stud C, having the lugs E E, and the oval lugs D are in one integral cast piece.

The handle of the iron is denoted by the letter F, and this handle will be of any suitable form and carry at its ends, which project downward, the plate G, which at its ends is fastened by screws to the handle F and at its center is formed with the opening H, which is of suitable dimensions to conveniently pass over the stud C, as illustrated in Fig. 1. The opening H is surrounded at its front and sides by the beading I, which projects above the upper general surface of the plate G, and at its rear end said opening H is semicircular in outline and bounded by the vertical edge J, which in use may abut against the vertical surface of the stud C. At opposite sides of the rear portion of the opening H are provided the inclines K, which in use pass partly under the studs E E, as illustrated in Fig. 2. Upon the upper side of the handle-plate G is pivotally mounted the spring-latch L, having the knob or handle M and formed with the downwardly-projecting toe N, which has a substantially vertical inner edge adapted to engage the side of the stud C, as shown. The front or handle end of the latch L has a spring tension downward, owing to the fact that the leaf-spring shown acts against the rear end of said latch in the usual manner. The thickness of the metal forming the vertical edge J at the end of the opening H is on a higher elevation than those portions of the metal

(lettered *a a*) on which the inclines K K are formed, and hence the said vertical edge J engages the upper portion of the stud C, while the inclines K pass downward below said upper portion and enter the space between the lower surface of the studs E E and the upper surface of the iron A. The toe N of the latch L engages the upper portion of that side of the stud C opposite to the side engaged by the said vertical edge J, and, as may be observed upon reference to Fig. 1, the portions of the vertical edge J and toe N which engage the opposite sides of the stud C are in line with one another and above the lower edge of the metal portions *a a*, upon which the inclines K are formed, and by reason whereof the handle is capable of rigid attachment to and convenient detachment from the body A of the iron, while when said handle is in place upon said body it remains firmly secured, and said body even with excessive jarring will not lose its engagement therewith.

The construction described is entirely durable in every respect. The attachment of the handle to the body A is rendered convenient and secure, and ease of manipulation of the parts is attained.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a sad-iron, the body A having the central vertical stud C provided with the oppositely-projecting horizontal side lugs E, E, the sides of said stud between said lugs being substantially vertical throughout and said lugs being above the body A, combined with the handle, the plate G secured to said handle and having the opening H, the inclines K, K, adapted to pass below said side lugs and the connecting edge J, and the pivoted spring-latch L having a knob or handle and provided with the downwardly-extending toe N adapted to extend into said opening at the end thereof opposite to that bounded by the edge J and to engage the substantially vertical face of said stud; substantially as shown and described.

Signed at Newark, in the county of Essex and State of New Jersey, this 26th day of October, A. D. 1896.

JAMES F. BLESS.

Witnesses:
WM. I. COOPER,
W. A. THEUER.