A. C. WILLIAMS.

SAD IRON HANDLE.

APPLICATION FILED JAN. 12, 1911.

998,315. Patented July 18. 1911.

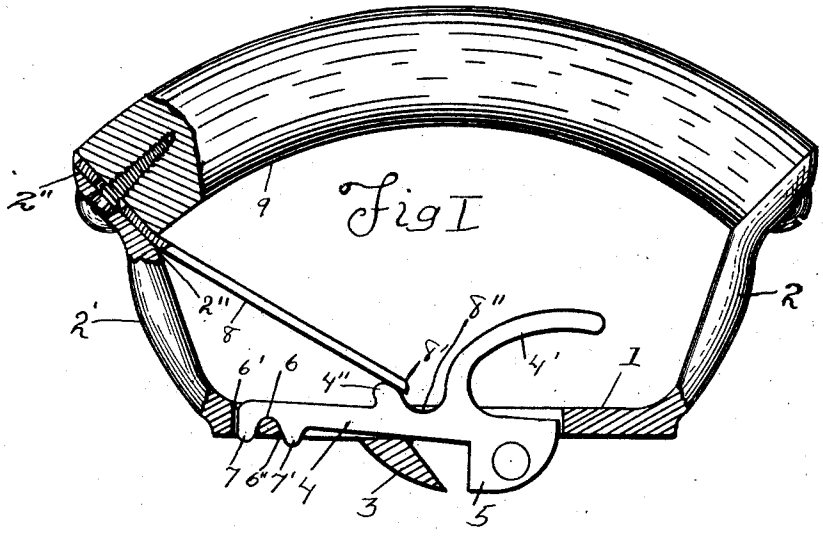

Fig I

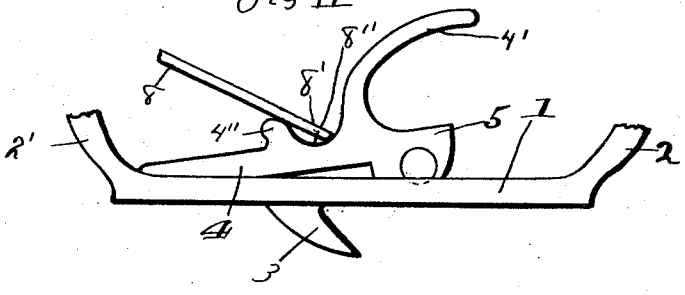

Fig II

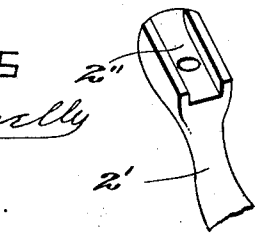

Fig. III

WITNESSES

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SAD-IRON HANDLE.

998,315. Specification of Letters Patent. Patented July 18, 1911.

Application filed January 12, 1911. Serial No. 602,355.

To all whom it may concern:

Be it known that I, ADAM C. WILLIAMS, a citizen of the United States, residing at Ravenna, in the county of Portage and State of Ohio, have invented certain new and useful Improvements in Sad-Iron Handles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to new and useful improvements in sad iron handles and more especially relates to such construction as is known as the detachable handle in which the latch is both operated and retained in position in the handle by means of a spring, obviating the necessity of employing a pivotal pin attachment of the latch to the base plate of the handle.

The objects of this invention, are to first, so connect and locate or dispose the spring in relation to the latch that a minimum amount of heat is conducted or retained by the spring thus prolonging the life of said spring.

Another object of this invention is to locate the free end of the spring in relation to the latch so that the normal or closed position of the latch is sustained and the open position of the latch is gaged and checked.

This invention consists, first, in the peculiar arrangement and location of the spring both in relation to the handle proper and the latch and also the location and operation of the spring in relation to the latch, all of which will be hereinafter fully set forth and claimed.

In the drawings, Figure I, is a view in side elevation of a sad iron handle constructed according to my invention. In this view the risers and the base of the handle are shown partly in section as is also that part of the riser and the handle piece where they are attached together and between which the spring is secured at its upper end. In this view the latch is shown closed for retaining the cross bar of the iron (not shown) in the hook formed integral with the base plate. Fig. II, illustrates the position of the latch and spring when the latch is opened or raised. Fig. III is a view of the upper portion of one of the risers showing the recess for the reception of the spring.

The construction of the handle herein shown is designed for use with irons of that type having detachable handles.

1, represents the base plate of the handle having the risers 2, 2′, at each end, each riser being, for the sake of economy and convenience of construction, formed integral with the base plate. A hook 3, also formed integral with the base plate is located at and projecting from the lower side of the base plate. This hook 3 is adapted to engage the cross bar of the iron as is usual with this type of iron and hence is formed with its engaging face at an acute angle to the base plate.

4, represents a pivotal latch having a nose 5 located and operating, when in normal position, so as to retain the cross bar of the iron within the hook 3. The latch 4 is pivotally attached at one end in the manner shown in Fig. I, as at 6, which represents a cross bar formed integral with the base plate 1, providing an opening 6′, at one side of said cross bar and an opening 6″ at the opposite side for receiving the depending lugs 7, 7′, formed on the end of the latch thus causing these lugs to form a seat or recess for pivotally operating upon the cross bar 6. A finger piece 4′ is secured to the latch 4, being preferably formed integral therewith for the purpose of operating said latch to open the same in position shown in Fig. II, to allow the hook to engage the cross bar of the iron. In order to retain the latch 4 in its normal or closed position and to operate the latch into closed position a spring 8 is provided, the upper end of which is secured between the riser 2′ and the wooden handle piece 9 at one end of said handle piece, this end of the spring resting in a recess 2″ formed in the upper end of the riser 2′. The lower or free end of the spring 8 as at 8′, engages a cam lug 4″ formed on the latch 4 approximately midway between its ends on the upper face of said latch and by pressing against said cam lug 4″ retains it in position as shown in Fig. I, but allows said latch to open out of position as shown in Fig. II. Between the lug 4″ and the base of the finger piece 4′ is formed a depression 8″ which receives the free end 8′ of the spring 8 and allows said latch to be checked in its upward movement to any greater extent than is essential for the full opening of the latch, this being an essential feature inasmuch as the spring

cannot be overstrained which will be easily understood. The spring 8 running in a diagonal direction is removed mainly from the body of the handle and also from the iron and has free passage of air around it and thus cannot be injuriously affected by the heat conducted from the iron to the handle.

The advantages of this construction as above set forth are many, namely, the cam action of the projection 4″ allows of the more easily raising of the latch against the spring tension, as the leverage is greater as against the spring while at the same time when the latch is closed it is positively seated in position. Also the strain upon the spring is less inasmuch as the movement of said spring is less by this construction than if the spring were flat resting upon the latch or operating against a lug at the rear end of the latch. Other advantages of this invention are apparent such as economy in construction and easy assemblage and the location of the spring prevents the heat from drawing the temper which is necessary to be preserved as the utility of such handle depends largely on the quality of the spring.

I do not wish to be limited in this invention to the exact construction or details of construction hereinabove set forth and illustrated in the drawings inasmuch as they may be modified without departing from my invention.

What I claim is:

A detachable sad iron handle of the type set forth comprising a base plate and risers, a stationary depending hook attached to said base plate, a movable latch pivotally attached at one end and at its free end adapted to coöperate with the stationary hook; a spring secured to the upper end of one of the risers and engaging the latch between its pivotal end and its free end, said spring engaging at its free end a cam lug on the upper face of the latch, the free end of the said spring also engaging the latch to limit its upward movement, substantially as set forth.

Signed at Cleveland in the county of Cuyahoga and State of Ohio this 28th day of December, 1910.

ADAM C. WILLIAMS.

Witnesses:
JOHN J. DONNELLY,
A. B. DONNELLY.