

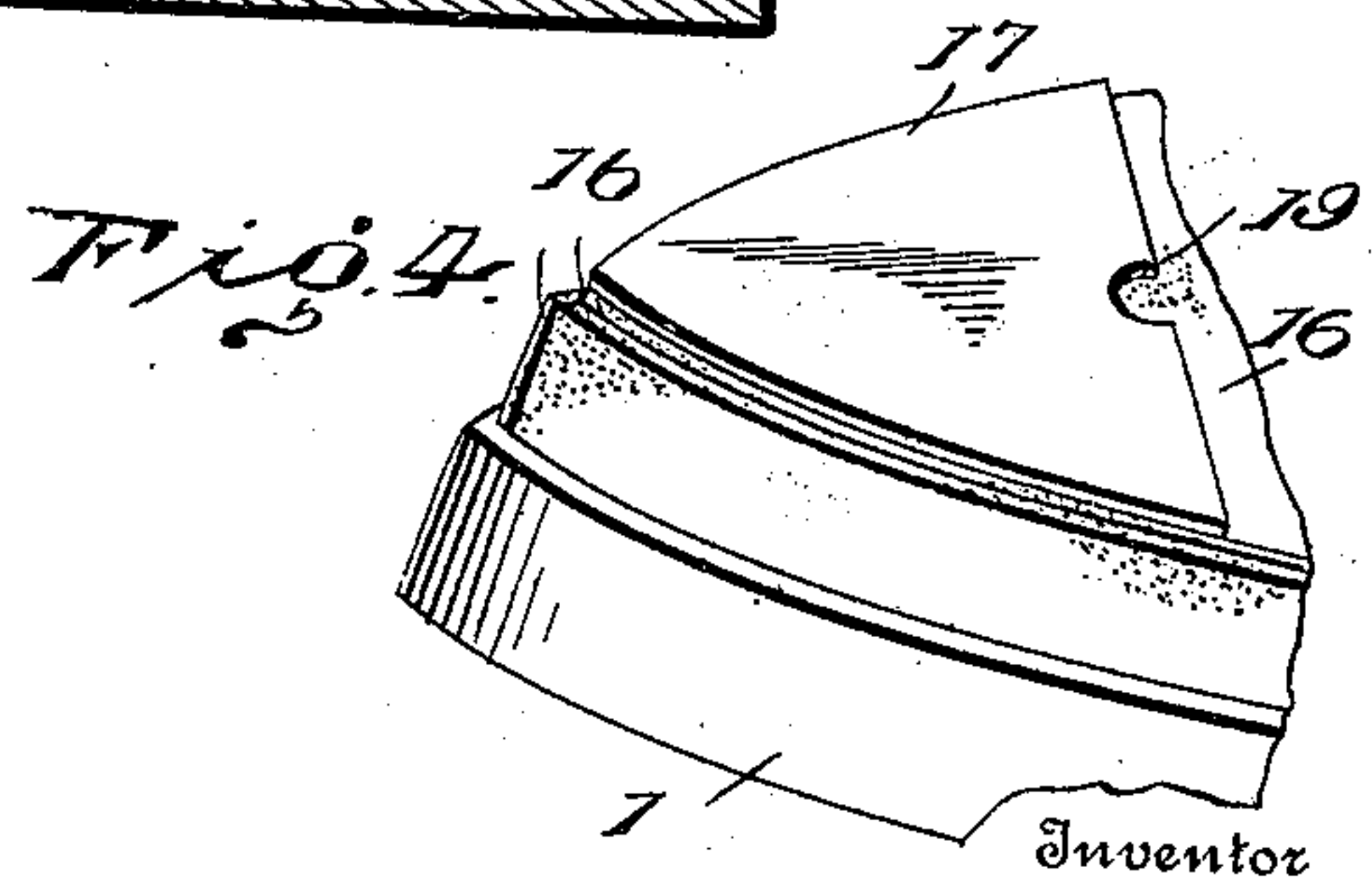
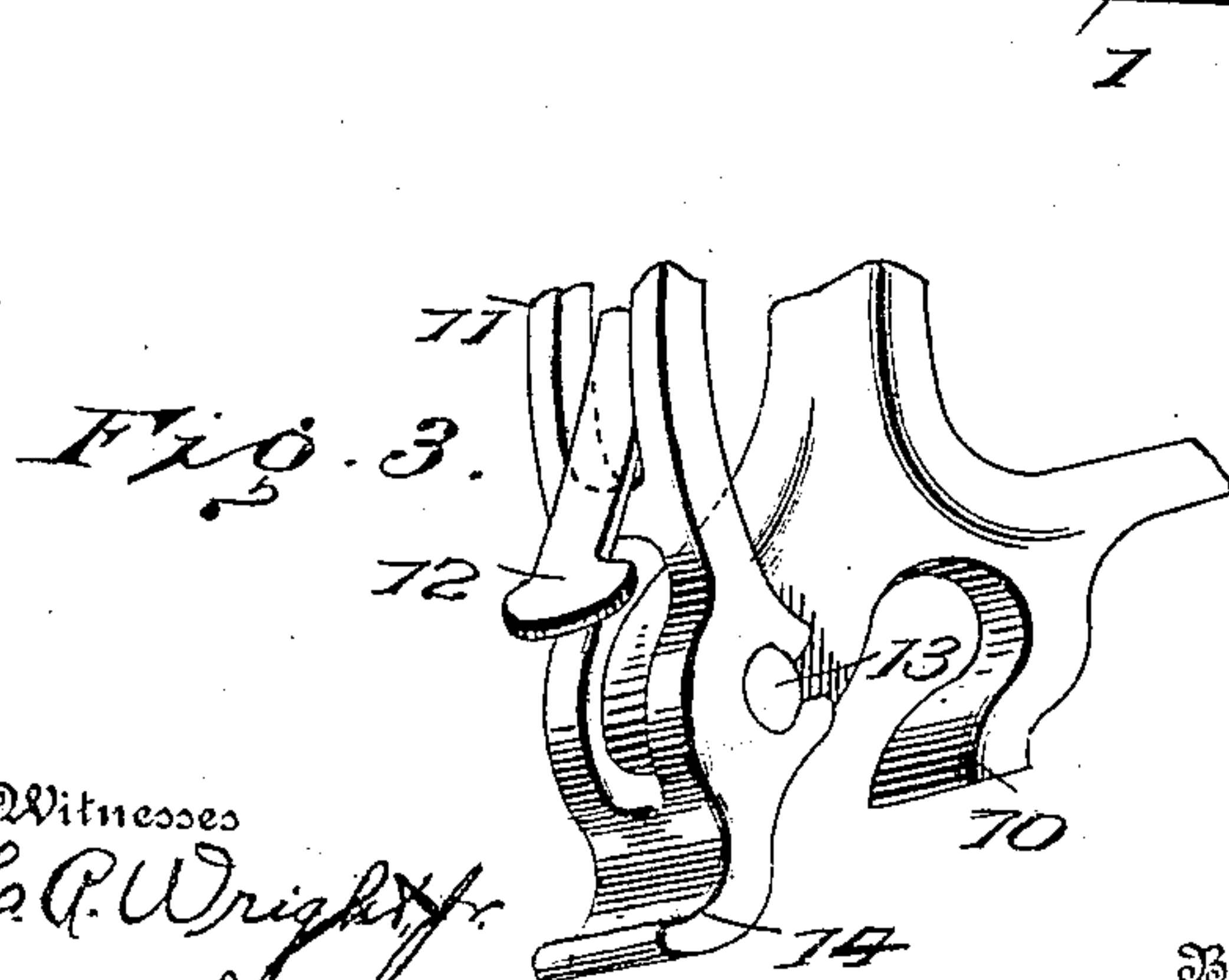
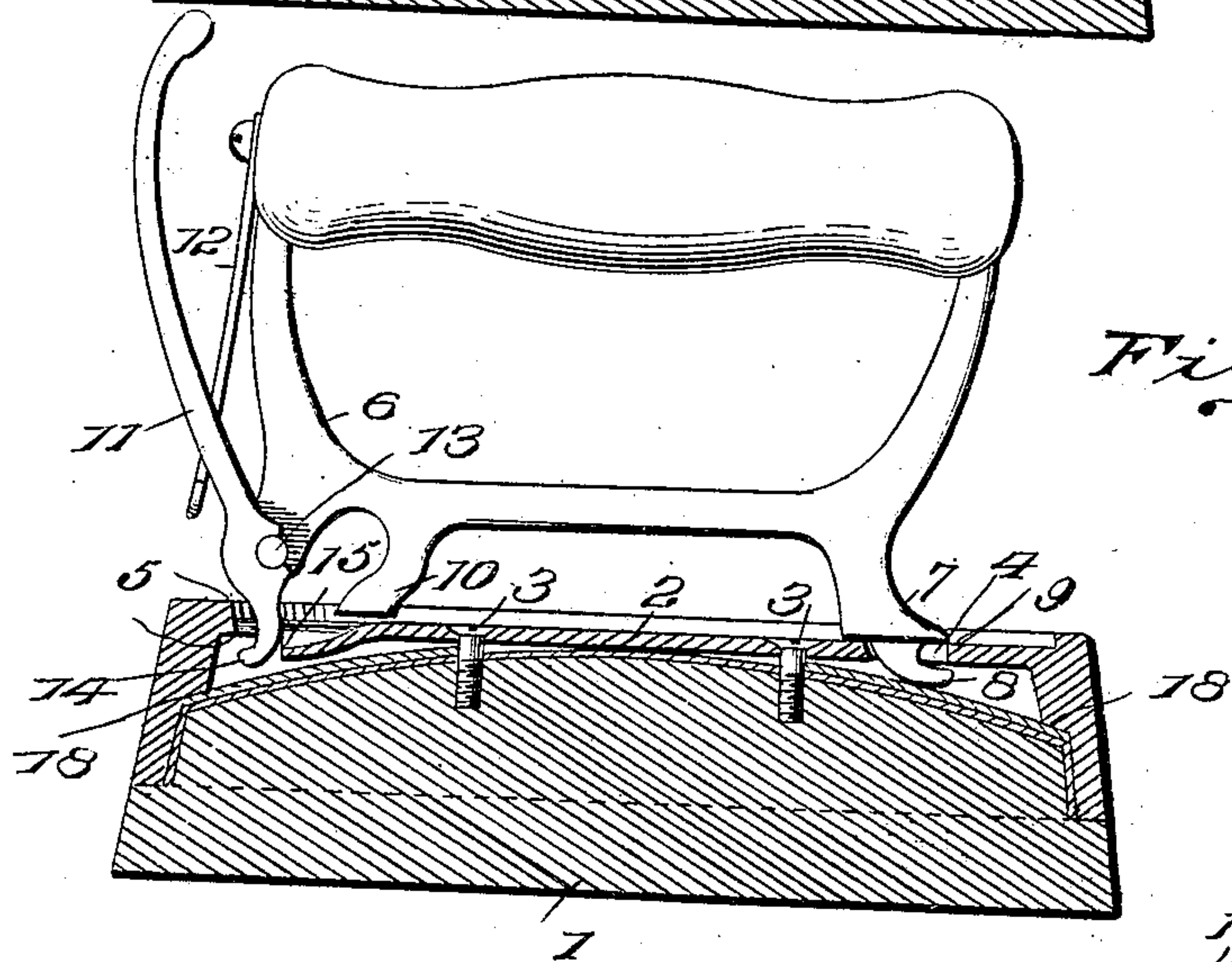
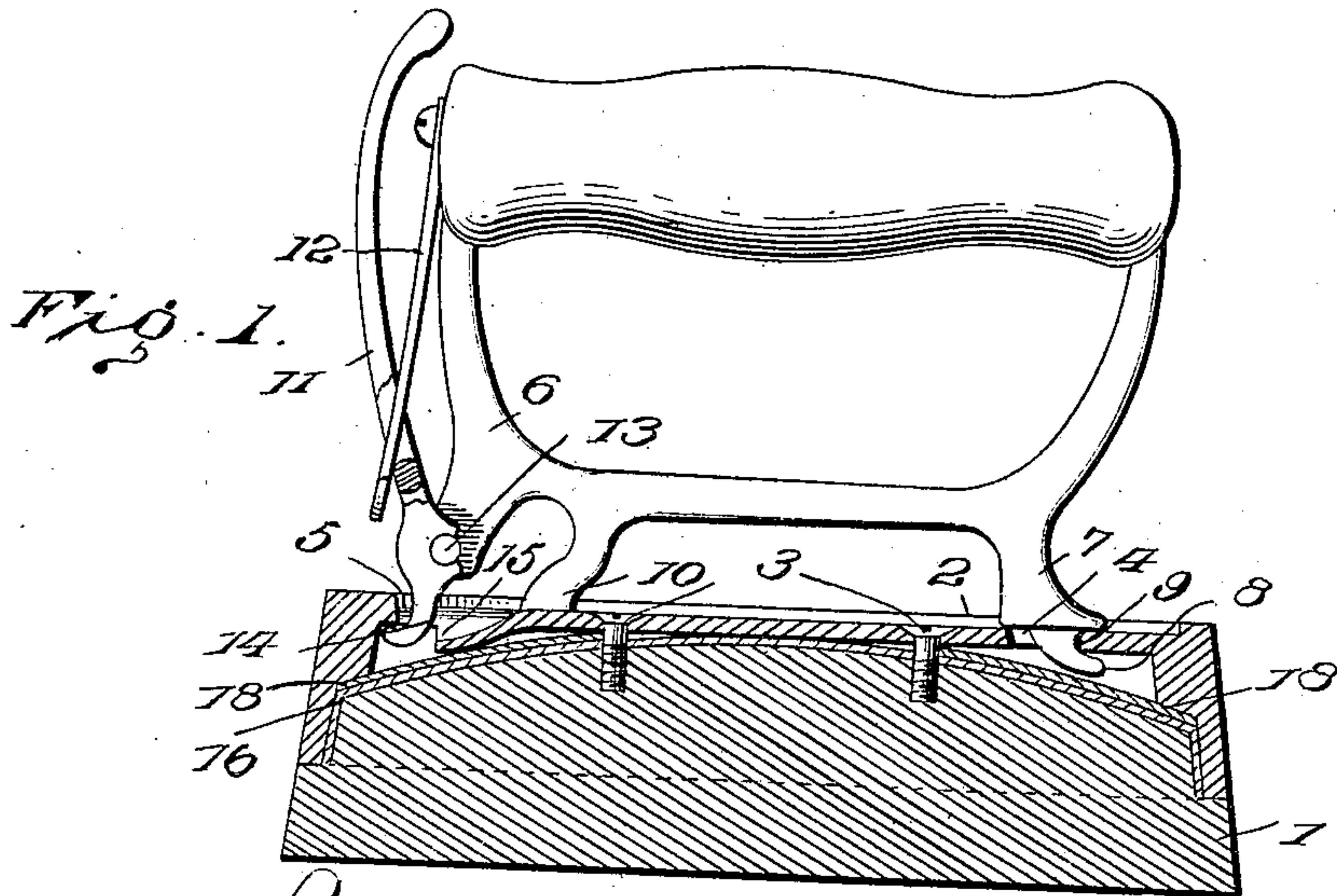
No. 886,736.

PATENTED MAY 5, 1908.

N. R. STREETER.

SAD IRON.

APPLICATION FILED DEC. 18, 1906.



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SAD-IRON.

No. 886,736.

Specification of Letters Patent.

Patented May 5, 1908.

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To all whom it may concern:

Be it known that I, NELSON R. STREETER, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in sad irons, and pertains to means for effecting the ready and easy removal of the handle, and to provide a protection for the asbestos lining between the iron proper and the cap or top with which the detachable handle is adapted to interlock.

The object of this invention primarily is to so arrange and construct the detachable handle with interlocking and detaching members that when in their locking position the handle is held absolutely firm, but when moved to detaching position all binding or choking of the interlocking members is prevented, whereby the handle can be easily removed without the choking or binding effect common in such devices.

In the accompanying drawings, Figure 1 is a longitudinal vertical sectional view of a sad iron with my improvement applied thereto, the handle being shown in its locking position. Fig. 2 is a similar view, the parts being shown in position to permit the removal of the handle without any binding or choking effect. Fig. 3 is an enlarged detached perspective view of the combined locking and unlocking lever, and the adjacent part of the detachable handle. Fig. 4 is a detached perspective view of one end of the iron proper with the cap removed, showing the protecting plate.

Referring now to the drawings, 1 is the main portion of the iron, and 2 the cap or cover which is held in position by means of suitable screws 3. This cap is provided with an opening 4 at one end and with an opening 5 at the opposite end, which are usual in these constructions.

A detachable handle 6 is provided, and this handle is provided at one end with a foot portion 7 which rests on the outer surface of the cap 2, and this foot is provided with an outwardly-projecting hook portion 8 which thus forms between the foot and the projection a notch which snugly receives the rear wall 9 of the opening 4, as shown in Fig. 1. The opposite end of the handle 6 is also pro-

vided with a foot portion 10 which rests upon the outside of the cap or cover 2 at a point just inside of the opening 5. Pivotaly supported upon the front end of the handle 6 is a combined locking and unlocking lever 11 against which a suitable spring 12 engages and serves to hold the lever in position upon its pivotal point 13, and also to hold it in its locking position as shown in Fig. 1. Thus far I have described the construction which has already been patented to me, and I will now explain the present improvement upon this construction.

In order to hold the handle firmly to the iron or top plate 2 at its rear end, it is necessary to have the hook portion snugly and tightly engage the rear end wall 9 of the opening 4, and these portions are forced into this snug and tight engagement by the spring-operated lever 12 which has its lower end 14 to engage the inner wall of the cap adjacent the opening 5 as shown in Fig. 1. The locking lever serves to hold the notched portion formed by the foot 7 and hook 8 firmly and snugly in engagement by endwise pressure upon the handle, and also serves to hold the foot 10 in firm engagement with the outer side of the cap, and the handle is thus held firmly to the iron with absolutely no movement, and in practice, as firmly as though an integral part of the iron proper, so far as ironing purposes is concerned. With these parts in locking position the handle is detached by moving the upper end of the lever 11 outward, which causes the disengagement of the end 14, and the present improvement is to not only disengage the end 14 with the wall of the cap, but to cause the movement of the lever to draw the handle forward to disengage the notch portion of the foot 7 away from the rear end wall 9 of the opening 4, which will then permit the handle to be released or removed from the iron without any binding effect between the wall of the notched portion and the rear end wall 9 of the opening 4. In the construction as heretofore patented, known and used extensively, there was no arrangement for causing the lever 11 to move the handle forward, and there was a choking and binding effect between the walls of the notched portion and the wall of the opening 4 when detaching the handle. The forward movement of the handle by the lever 11 is accomplished by so arranging the inner wall 15 of the opening 5 and the end 14 of the locking lever that they

will engage when the lever is moved to the unlocking position, and thus carry the handle forward, as shown in Fig. 2, which overcomes the objectionable choking and binding effect heretofore described.

The invention is here shown applied to an iron having an asbestos lining 16, and for the purpose of preventing any mutilation of the asbestos which covers the top of the main body 1 of the iron, by the interlocking hook portions of the detachable handle, and to still further provide against the radiation of heat from the body of the iron through the openings 4 and 5, I provide the protecting plates 17, and to clamp these plates into position I provide the cap portion 2 with the inwardly extending lugs 18 which clamp their outer ends and provide their inner ends with semi-circular notches 19 through which the clamping screws 3 pass. This arrangement holds the protecting plates firmly in position, and thus prevents any mutilation of the asbestos by any movement of the plates themselves, and by any engagement therewith of the hook portion, or by mutilation through the openings 4 and 5 when the handle is not in place upon the iron.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:—

1. A sad iron comprising a body portion provided with handle-receiving openings, of a handle having at one end a foot with a notched portion to engage the rear end wall of one of said openings, and at the opposite end a foot engaging the top surface of the body portion and also a locking lever adapted when in locking position to force the

notched portion into locking engagement, and to engage the iron when moved in its unlocking position, to draw the handle endwise for the purpose described.

2. A sad iron comprising a body portion provided with handle-receiving openings, of a detachable handle having at one end a notched foot portion to engage the rear end wall of one of said openings, and at the other end a foot engaging the top surface of the body portion and a pivoted locking lever having its lower end adapted to extend into the other opening and engage one wall thereof for locking the handle and adapted to engage the other wall of the opening when moved into an unlocking position thereby moving the handle endwise for the purpose described.

3. A sad iron comprising a main body portion having its top surface provided with an asbestos covering, a detachable cap therefor provided with handle receiving openings in the ends thereof, protecting plates separate from the cap and placed over the covering below said openings, for the purpose described, and the cap having lugs at its ends which engage the outer ends of the plates and clamp them down against the top of the covering at the ends of the main body portion, the parts combined substantially as and for the purpose set forth.

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

NELSON R. STREETER.

Witnesses:

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