O. AVERY, Jr.

Sad-Iron.

No. 198,530. Patented Dec. 25, 1877.

Fig. 1.

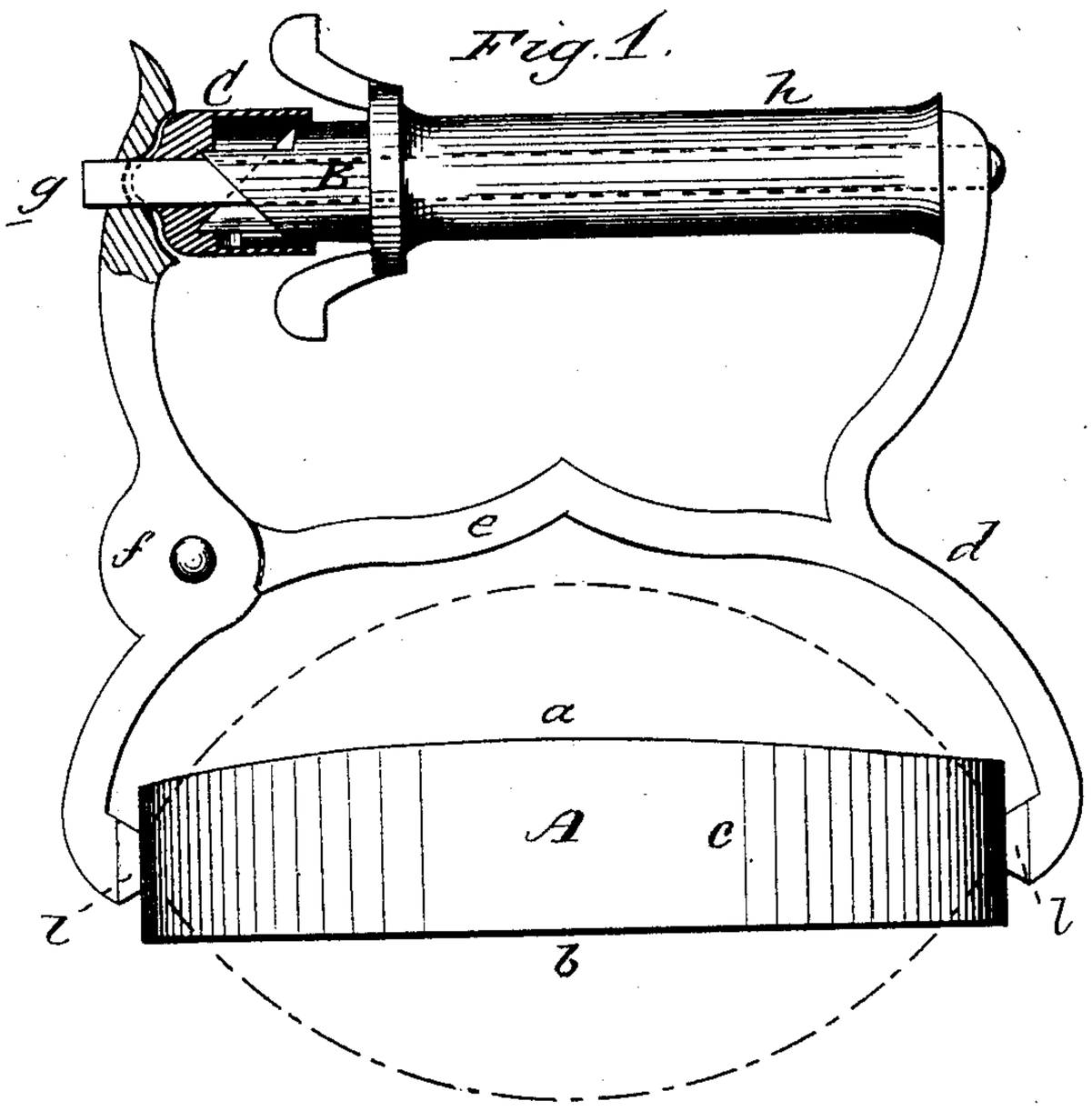


Fig 2.

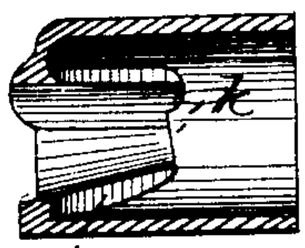


Fig. 3

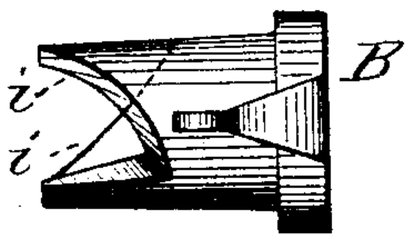
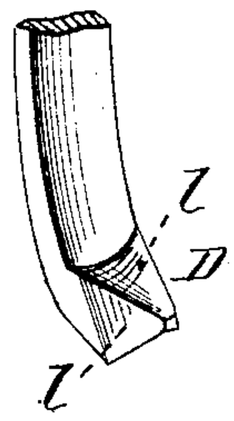


Fig. 4.



WITNESSES

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OLIVER AVERY, JR., OF GROTON, NEW YORK.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. **198,530,** dated December 25, 1877; application filed July 23, 1877.

To all whom it may concern:

Be it known that I, OLIVER AVERY, JR., of Groton, in the county of Tompkins and State of New York, have invented a new and valuable Improvement in Handles for Sad and other Irons; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of my invention, partly in section. Fig. 2 is a sectional view of the thimble or sleeve. Fig. 3 is a side elevation of the locking-nut. Fig. 4 is a broken view of one of the arms, showing the conical projections.

The object and purpose of the present invention is to provide a simple and effective means for securely locking removable handles to sad or other irons; and the invention consists in a thimble having cast or otherwise formed upon its interior inclined shoulders with stops, in connection with a nut formed with corresponding inclines, which, together, form a device for locking the arms of the handle to the iron.

The invention further consists, in connection with an iron having two or more ironing-surfaces, of conical projections upon the ends of the arms of the handle, said projections having flat sides or faces to fit correspondingly-formed recesses in the iron, whereby the iron may be turned to either of its ironing-surfaces without the necessity of entirely removing or detaching the arms therefrom, the lower end of the pivoted arm of said handle being released from or held within said recess by a locking device.

In the accompanying drawings, A represents a sad or polishing iron formed with a convex polishing-surface, *a*, a flat surface, *b*, and two narrow convex polishing-surfaces, *c*.

Although I have shown and described an iron of the above construction, it is evident that any form or construction of irons may be used with my improved handle without departing from the nature and gist of my invention.

The handle is composed of the arm *d*, having a branch, *e*, to which is pivoted an arm, *f*. Secured to or passing through the upper ends of these arms is a square rod, *g*, said rod, at one of its ends, being rigidly connected to the arm *d*, while the other end loosely passes through an opening in the upper end of the arm *f*.

Upon the rod *g* is secured a wooden handle, *h*, and a loosely-fitting nut, B, having inclines *i*, which engage with corresponding inclined shoulders *j* upon the interior of a sleeve or thimble, C, said inclines terminating in stops *k*.

The arms *d f* are formed at their lower ends with conical projections D, having four flat surfaces, *l*, which enter correspondingly-formed recesses in the iron A.

The operation is as follows: When it is desired to bring the arm *f* firmly against the iron A, with the projections in the recesses, the nut B is turned, and the inclines *i* traverse upon the inclined shoulders *j* until the ends of the inclines *i* rest upon the stops *k*, when a firm lock of the arm *f* is obtained. When it is found necessary to change any of the ironing-surfaces, the nut B is turned in an opposite direction until the projection D of the arm *f* is brought outward sufficiently to allow the ready turning and adjusting of the iron, when the nut B is brought to its former position within the thimble or sleeve.

It will be seen that the peculiar form of the projections D allows the iron to be turned without entirely removing them therefrom, and when the handle is locked the iron is held perfectly firm and stationary.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A locking device for removable handles for irons, consisting of the thimble or sleeve C, formed with inclines *j* and stops *k*, in combination with nut B, having inclines *i*, substantially as and for the purpose set forth.

2. The combination of the reversible iron A, provided with conical recesses at its ends, the arms *d*, *e*, and *f*, pivoted together, and provided with conical projections to fit said recesses, and a device, substantially as described, to lock and release the arm *f*, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OLIVER AVERY, JR.

Witnesses:
NAT. E. OLIPHANT,
R. S. REEMS.