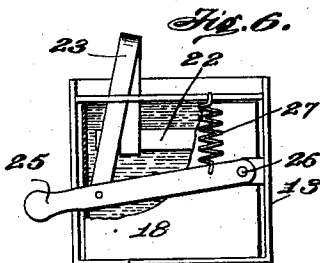
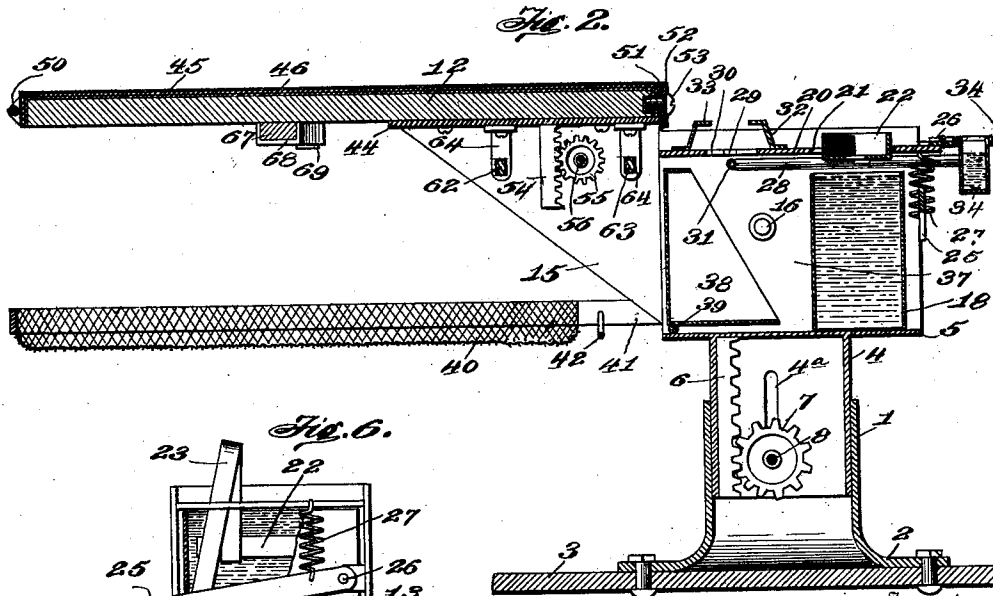
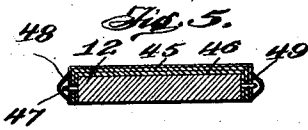
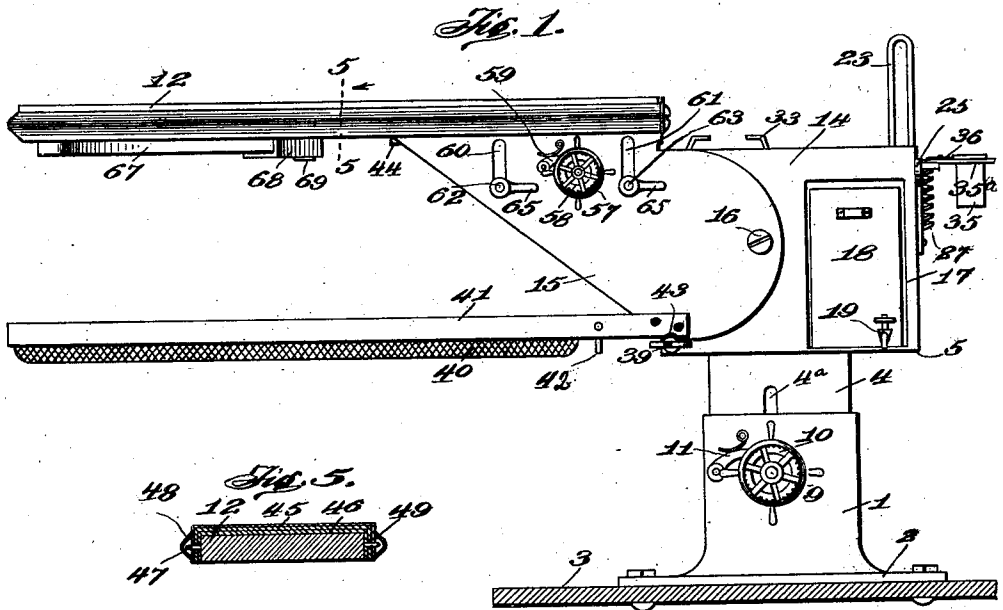


A. F. HYSON & T. MOUAT.
IRONING STAND.

(Application filed Aug. 8, 1901.)

(No Model.)

2 Sheets—Sheet 1.



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No. 699,922.

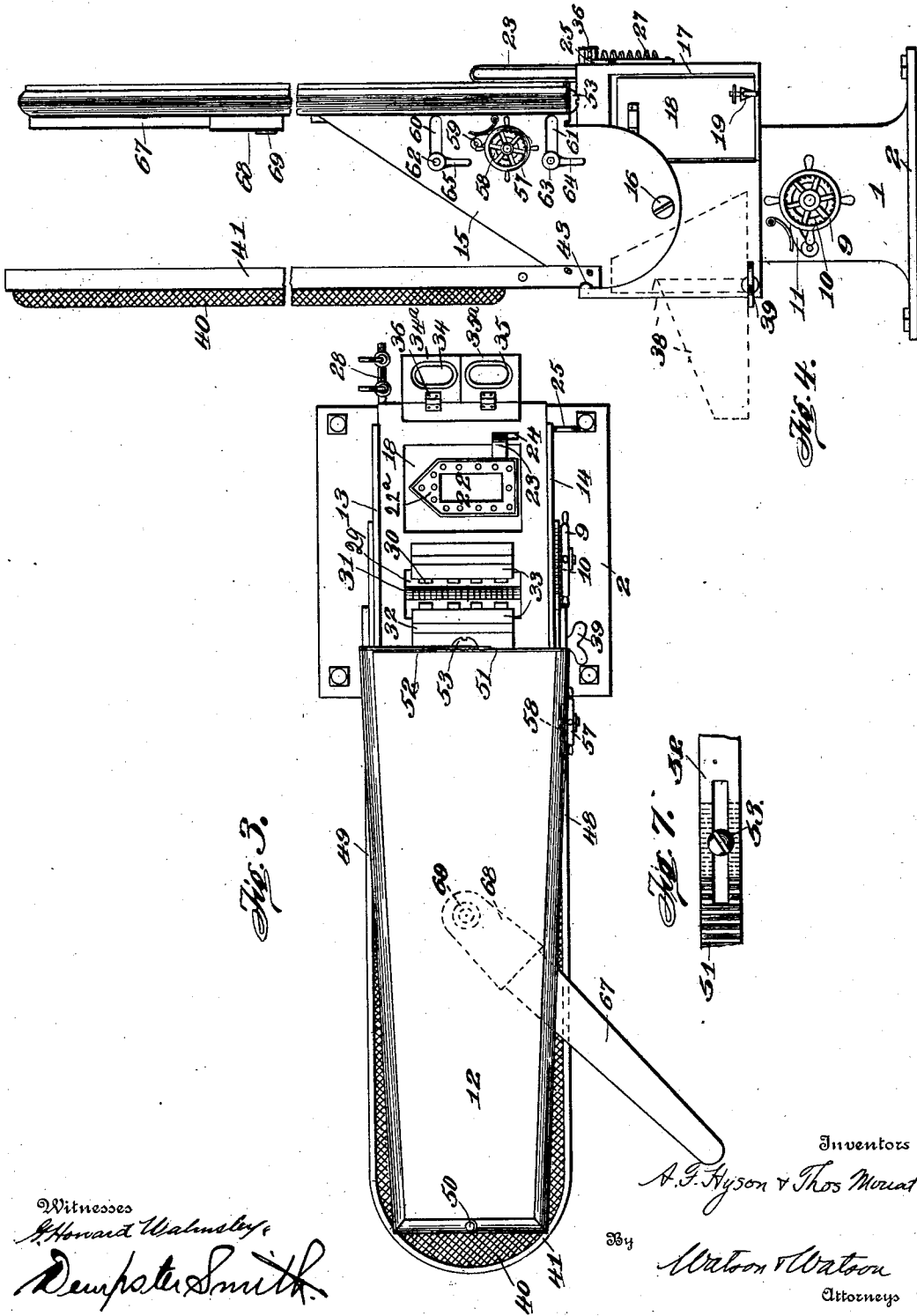
Patented May 13, 1902.

A. F. HYSON & T. MOUAT.
IRONING STAND.

(Application filed Aug. 3, 1901.)

(No Model.)

2 Sheets—Sheet 2,



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UNITED STATES PATENT OFFICE.

ARCHIBALD F. HYSON AND THOMAS MOUAT, OF CHICAGO, ILLINOIS.

IRONING-STAND.

SPECIFICATION forming part of Letters Patent No. 699,922, dated May 13, 1902.

Application filed August 3, 1901. Serial No. 70,760½. (No model.)

To all whom it may concern:

Be it known that we, ARCHIBALD F. HYSON and THOMAS MOUAT, citizens of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Ironing-Stands, of which the following is a specification.

The purpose of this invention is to provide an ironing-stand for use in laundries which will facilitate the operation of ironing clothes and occupy a minimum amount of floor-space.

The invention combines in a compact form all the necessary apparatus for heating and cooling irons and for dampening and ironing clothes, and it is readily adjustable to suit persons of different height and may be folded out of the way when not in use.

In the accompanying drawings, which illustrate the invention, Figure 1 is a side view of the ironing-stand complete arranged ready for use. Fig. 2 is a central longitudinal section through the same. Fig. 3 is a plan view of the same. Fig. 4 is a side view of the stand with the ironing-board folded. Fig. 5 is a section through the ironing-board on the line 5-5 of Fig. 1. Fig. 6 is an end view of the casing, showing the devices for dipping the irons in the cooling-tank, the latter being broken away; and Fig. 7 is a detail showing the free ends of the pin-guard and means for adjustably securing said ends together.

Referring to the drawings, 1 represents a vertically-arranged rectangular trunk or standard having a base 2, which is suitably secured to the floor 3. Within this trunk or standard 1 is an adjustable support 4, which is connected to the lower side of a casing 5, upon and within which the laundry apparatus is arranged: The support 4 is vertically adjustable within the standard 1 by means of a rack 6, secured to the support and engaging a pinion 7, the latter being journaled in the standard upon a shaft 8, to which is secured a hand-wheel 9 upon the outer side of the standard. Slots 4^a are formed in the support 4, and the shaft 8 extends through these slots. A ratchet-wheel 10 is also secured to said shaft, and a spring holding-pawl 11 engages said ratchet and holds the support in any desired vertical adjustment. The casing 5, as

shown, is rectangular in form, and the ironing-board 12 is connected to the opposite sides 13 and 14 of the casing by means of brackets 15, which are connected to the sides of the casing by pivots 16. The side 14 of the casing is cut away, as shown at 17, in order to provide an opening through which a tank 18 may be inserted and removed. This tank is adapted to contain water for the purpose of cooling overheated sad-irons and is provided with a suitable spigot 19 for drawing off the water when desired. The top 20 of the casing is formed with an opening 21 immediately over the cooling-tank 18, and within the opening is arranged a vertically-adjustable iron-holder 22, suitably formed to receive a sad-iron. This holder consists of a pan having the bottom cut out, as shown, leaving a supporting-rim 22^a for this iron, this rim being perforated, as shown, to permit the water to flow freely around the iron. The holder is carried upon a rod 23, which extends upwardly and then downwardly through a guide-slot 24, which is formed in the top of the casing at one side of the tank. This rod 23 is pivotally connected to a lever 25, the latter being pivoted at 26 to the side 13 of the casing and being normally held in its raised position by a spring 27. The arrangement is such that if it is desired to cool one of the said irons the latter is placed in the holder 22 and dipped into the liquid by the depression of the hand-lever 25. The spring 27 is strong enough to support the weight of the iron and raise it above the water. For the purpose of heating the irons a gas or gasolene pipe 28, provided with suitable regulating-valves, extends into the casing and beneath an opening 29, formed in the top of the casing. Tongues 30, integral with the top of the casing, project into the opening and serve as grate-bars to support the irons. The burner 31, connected to the pipe 28, extends longitudinally beneath the center of the opening, and it will be seen that the flame will impinge directly against the lower side of the sad-iron. In order to confine the heat about the body of the iron and to some extent prevent it from heating the handle, guards 32 are arranged upon either side of the opening, and said guards are formed with inwardly-projecting flanges

33, which extend over the sides of the iron. The latter is inserted and removed at the ends of the guards. At the opposite end of the casing from the ironing-board a sponge-cup 34 and a cup 35, adapted to contain water for sprinkling purposes, are suitably supported by the casing. As shown, these cups fit within holders 34^a and 35^a, respectively, said holders being secured to the casing by hinges 36, so that they may be folded onto the casing when not in use. The space 37 within this casing which is not occupied by the cooling-tank may serve as a sort of closet for keeping articles belonging to the operator or for any other desired purpose. This space may be inclosed by a door 38, hinged to the casing by a strong pin 39, passing through the sides of the casing. Beneath the ironing-board 12 is arranged an elongated basket 40 upon a support 41, which is rigidly secured at its opposite ends to the brackets 15. The basket 40 serves as a holder for the clothes which are to be ironed and also prevents the clothes which are being ironed from coming in contact with the floor. It also avoids the necessity of having baskets upon the floor, which ordinarily are in the way when the floor is being cleaned.

The support carries a bail 42, upon which the door 38 rests when the latter is opened, as shown in Fig. 4. When the ironing-board is brought to the horizontal position, notches or shoulders 43 at the lower sides of the brackets rest upon the projecting ends of the hinge-pin 39, and the latter serves as a stop to prevent downward movement of the board. The ironing-board may be of any suitable form. As shown, it is mounted upon a metal cross-piece 44, which connects the upper edges of the bracket-arms 15, and is provided with a suitable padding on its upper surface. The usual removable cloth 45, which extends over the padding 46, is secured to the board by passing its edges over pins 47, which are arranged around the sides and ends of the board. (See Fig. 5.) In order to hold the removable cloth firmly over the pins and to protect the operator from the pins, a removable metal guard comprising the two parts or halves 48 and 49 extends around the sides and ends of the board, the two ends of said parts at the forward end of the board being connected together by a pivot 50 and their free ends 51 and 52 being slotted, as shown in Fig. 7, and secured together by a set-screw 53, which passes through the slots in said ends. The ends 51 and 52 are flat, as shown, while the guard at the sides and forward end of the board is V-shaped in cross-section and extends over the pins. By this construction the pins are completely covered, and yet the guard may be readily removed for the purpose of changing the cover. The ends are slightly roughened or corrugated, as shown in Fig. 3, so that when the screw is set the ends will not slip. Instead of pivoting the two parts at their forward ends they may be slotted and

connected by a screw in the same manner as at their rear ends.

By means of the hand-wheel 9 and the pinion and rack operated thereby it will be seen that the support, with the casing and board, may be adjusted vertically to suit operators of different height. A short operator works at a disadvantage over a high board, and it is desirable to have the board adjustable, so that the operator can work to the best advantage without resorting to steps or other devices for raising herself above the floor. The hand-wheel 9 adjusts the entire apparatus to suit the convenience of the operator. It may, however, be desirable to adjust the ironing-board relatively to the casing which contains the heating and cooling apparatus. In order to accomplish this adjustment, a rack 54, secured to the plate 44 of the bracket, is engaged by a pinion 55 upon a shaft 56, journaled in the bracket-arms 15, and upon the shaft are secured a hand-wheel 57 and a ratchet-wheel 58, the latter being engaged by a holding-pawl 59, this construction being substantially the same as the corresponding device in the standard 1 and support 4. Vertical slots 60 and 61 are formed in the bracket-arms, and guide-rods 62 and 63, respectively, extend through said slots. These guide-rods are carried in hangers 64, which are suitably secured to the top 44, and one or both ends of each of said rods are threaded and provided with nut-wrenches 65, by means of which the rods may be locked to the bracket-arms in any adjustment.

When the hand-wheel and rack are dispensed with as a means for moving the board vertically, the nut-wrenches are desirable for the purpose of locking the board in any desired adjustment. Said wrenches are also desirable for the purpose of preventing an oscillating movement of the board when in use.

In adjusting the stand the whole apparatus except the base and standard may be raised or lowered by the hand-wheel 9, or the board may be raised and lowered relatively to the casing by the hand-wheel 57, or in an extreme case both hand-wheels may be operated and the ironing-board raised to a suitable height.

When the apparatus is not in use, the ironing-board and basket are folded in the vertical position (shown in Fig. 4) by swinging the bracket-arms around their pivots 16. The only floor-space covered when the apparatus is folded is the necessary space for the base of the apparatus and the casing. By folding the apparatus in this manner the floor of the laundry may be cleaned without shifting and moving or sweeping under the ironing-board.

As shown in Figs. 1, 3, and 4, a board 67, suitable for ironing sleeves, is removably secured within a socket 68, which is pivoted at 69 to the under side of the ironing-board. This sleeve-board may be swung around parallel with the main ironing-board when the sleeve-board is not in use.

The operation and advantages of the inven-

tion will be clear from the foregoing description, and a further detailed statement of the operation is therefore unnecessary.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In an ironing-stand the combination with a suitable base, of a standard vertically adjustable on said base, a casing constructed to contain heating and cooling devices carried by said standard, an ironing-board hinged to said casing, and means for adjusting said standard.

2. In an ironing-stand, the combination with a suitable base, of a standard vertically adjustable on said base, the casing carried by said standard, brackets hinged to said casing, an ironing-board adjustable vertically relatively to said brackets, and means for adjusting said standard and ironing-board.

3. The combination with an ironing-stand, of a cooling-tank, a sad-iron support movable vertically into and out of said tank, a lever to which said support is connected, said lever being pivoted to the stand and a spring arranged to normally hold the lever and support in their elevated positions.

4. In an ironing-stand, the combination with a base, of a standard adjustable relatively to said base, a casing carried by said standard and constructed to contain heating and cooling devices, an ironing-board hinged to said casing, and means for adjusting said parts relatively to the base comprising a rack secured to the standard, a pinion journaled in the base, a hand-wheel for operating said pinion and a rack and pawl arranged to prevent the backward rotation of the pinion.

5. In an ironing-stand, the combination with the brackets hinged to a suitable support, of a board vertically adjustable relatively to said brackets and means for adjusting said board comprising a rack secured to the board, a pinion-shaft journaled in the brackets, a pinion upon said shaft engaging the rack, a hand-wheel for turning said shaft and a pawl and ratchet adapted to prevent the backward rotation of the shaft.

6. In an ironing-stand, the combination with the standard and the casing, of the brackets pivotally secured to said casing, the ironing-board secured to said brackets, a door adapted to close one end of the casing and a hinge-pin upon which said door is hinged, said pin having its opposite ends projecting through the casing and forming stops for the brackets.

7. The combination with a laundry-board having a series of outwardly-projecting pins extending around its edges and adapted to engage the edges of the cover, of a removable guard, V-shaped in cross-section and comprising two pivotally-connected parts extending around the board over said pins, the free ends of said guard being adjustably secured together.

In testimony whereof we affix our signatures in presence of two witnesses.

ARCHIBALD F. HYSON.

THOMAS MOUAT.

Witnesses to signature of Archibald F. Hyson:

ROBERT WATSON,
C. W. CLEMENT.

Witnesses to signature of Thomas Mouat:
PHILIP E. GOOLD,
PAUL FARRINGTON.