No. 682,362. Patented Sept. 10, 1901.

C. A. LANDGREN.

FLAT IRON HEATER.

(Application filed Apr. 8, 1901.)

(No Model.)

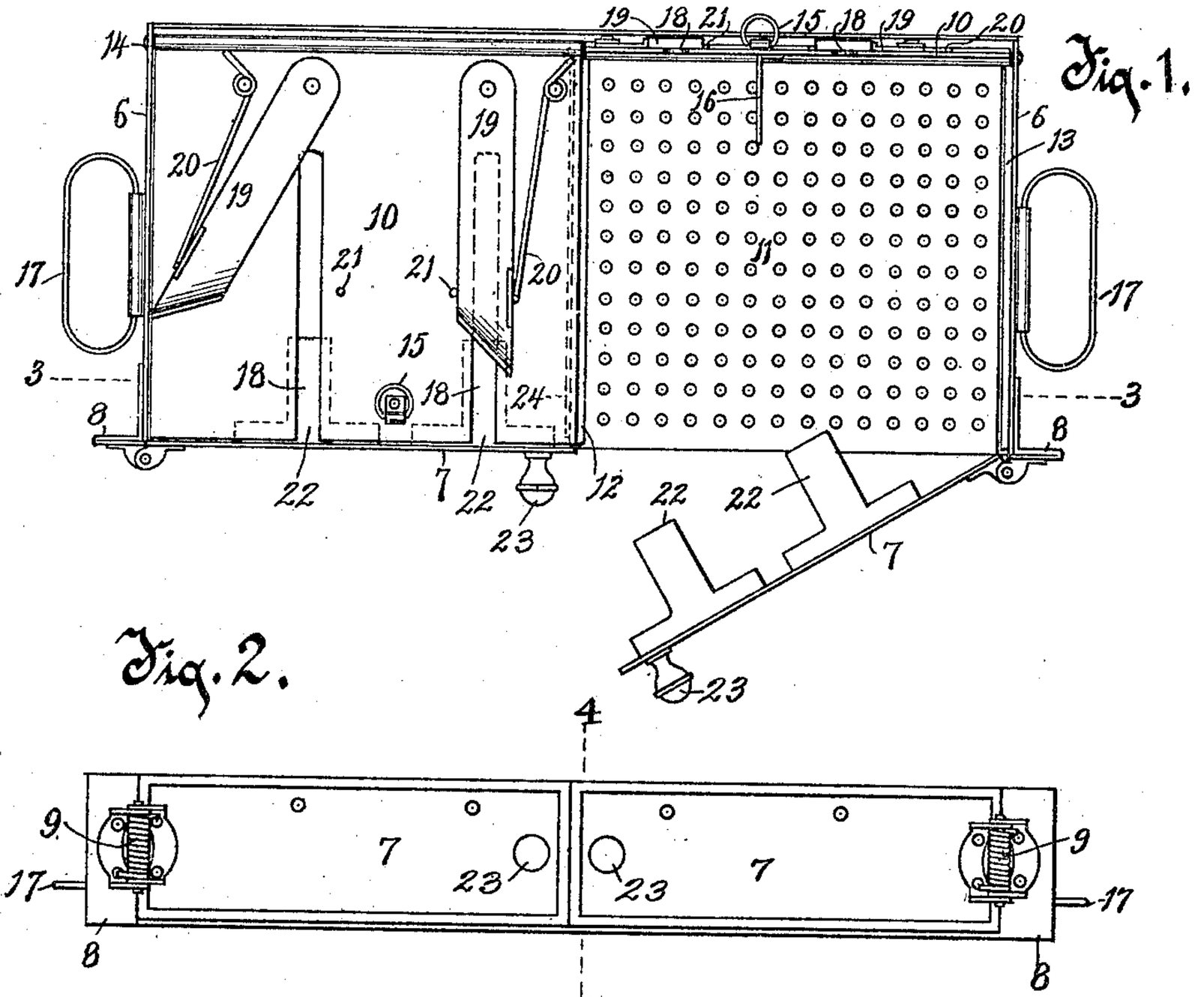


Fig. 1.

Fig. 2.

Fig. 3.

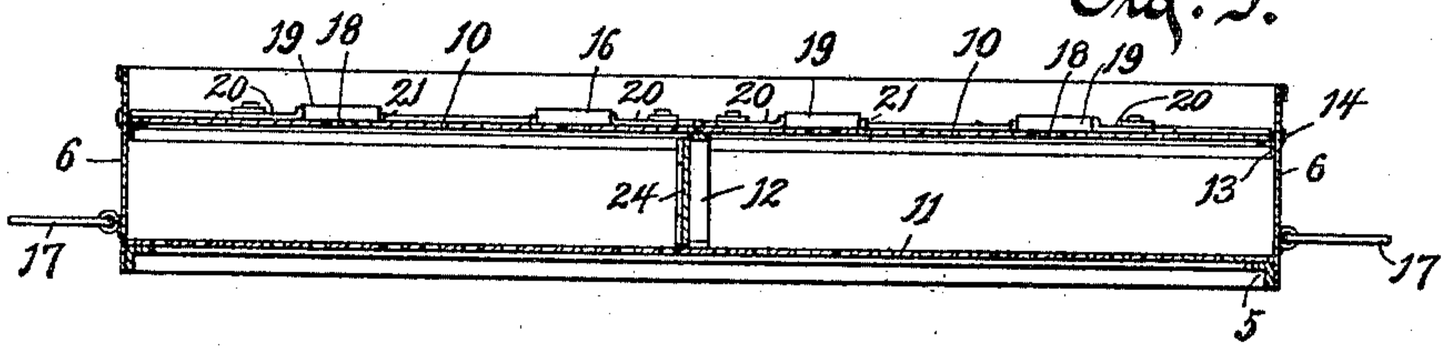
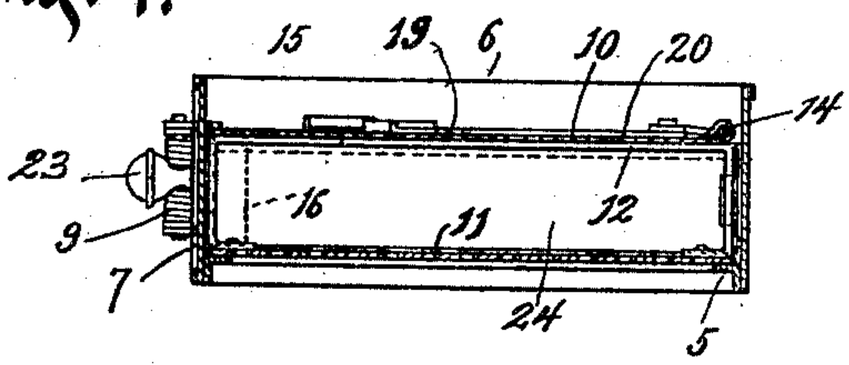


Fig. 4.



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UNITED STATES PATENT OFFICE.

CARL AXEL LANDGREN, OF KENOSHA, WISCONSIN.

FLAT-IRON HEATER.

SPECIFICATION forming part of Letters Patent No. 682,362, dated September 10, 1901.

Application filed April 8, 1901. Serial No. 54,823. (No model.)

To all whom it may concern:

Be it known that I, CARL AXEL LANDGREN, residing at Kenosha, in the county of Kenosha and State of Wisconsin, have invented a new and useful Improvement in Flat-Iron Heaters, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to improvements in devices for heating flat-irons and analogous implements.

The invention relates especially to a device adapted to be employed with a gas-stove or with a coal or wood stove; and it consists in a general way of a box-like construction having convenient facilities for receiving and holding the flat-irons and retaining the heat therein and about the flat-irons, whereby they are readily and quickly heated.

The invention consists of the devices and their combinations as herein described and claimed or the equivalents thereof.

In the drawings, Figure 1 is a top plan view of my improved flat-iron heater, the top and side door at one side being open, exposing the interior construction. Fig. 2 is a front view of the heater. Fig. 3 is a transverse section on line 3 3 of Fig. 1. Fig. 4 is a transverse section on line 4 4 of Fig. 2.

My improved heater is constructed chiefly and advisably entirely of metal, and mostly of sheet metal, preferably of steel.

In the drawings, 5 is an open frame, advisably rectangular in form and preferably constructed of angle iron or steel, which serves as a stiffening-frame and as a base for the complete device. The side walls 6 of the heater are made of sheet metal advisably secured to the outer surface of the frame 5 by being riveted thereto. These side walls 6 inclose three sides of the heater, the wall of the heater at the front being formed of one or more doors 7, also of sheet metal, hinged at their respective outer edges to the wall 6 conveniently by means of sheet-metal lugs 8 in angular form, riveted to the side walls, and having a face projecting laterally in the plane of the doors when closed, which in this position form the closed wall of the heater at the front. These doors are held to a closed position yieldingly by coiled-wire torsional springs 9. The doors 7 are made to close against the front edge of the frame 5 and also against the front edges of the doors or covers 10.

A sheet-metal removable floor 11 fits in the heater and rests on the inwardly-turned flange of the angle-iron frame 5, which forms a ledge therefor. When employed with a gas-stove, this floor 11 is preferably perforated, as shown in Figs. 1, 3, and 4, and when the heater is to be employed with a coal or wood stove the floor may be non-perforated or a tight sheet-metal floor. When this heater is of such size that it is desirable to have a plurality of covers 10, a supporting-standard 12 is provided, preferably consisting of a metal strap secured at its ends to the floor 11 and carried upwardly therefrom and across over the floor at such height therefrom as adapts it to serve as a support on which the otherwise unsupported edge or edges of the covers 10 can rest. A ledge 13, advisably consisting of an angle-iron secured to the inner surfaces of the side walls 6, is so located as to serve for a rest and support for the covers 10 when they are closed down within the walls 6.

The walls 6, with the doors 7 and the covers 10, form a heating-chamber, within which the flat-irons are placed on the floor 11 for being heated. The covers 10 are hinged to the wall 6, conveniently by a pivot-rod inserted through holes therefor in the end walls, the sheet metal of the covers being turned over about the rod, forming a hinge. The covers 10 are advisably provided with ring-handles 15, hinged on the upper surfaces of the covers, and each cover is advisably provided with a leg 16, secured thereto near its front edge medially of its length, adapted when the cover is let down to rest on the floor 11. The heater is also advisably provided with wire-hinged handles 17 on the ends thereof.

As the flat-irons have handles that project upwardly some little distance above the bodies of the irons and as it is desirable that these handles shall not be heated more than is necessary, the covers 10 are located at such distance above the floor 11 as to permit of the bodies of the irons being in the chamber of the heater while the handles are above the covers, and for this purpose slots 18 18 are provided in the covers 10, extending from their front edges inwardly and rearwardly

sufficiently far to permit of the flat-irons being pushed into the chamber of the heater entirely, while the handles extend upwardly through these slots. For covering when the irons are not in the heater so much of the inner portions of these slots as is required for the handles of the irons when the irons are in place in the chamber slot-covers 19 19 are employed, which consist of strips of sheet metal pivoted at their rear ends on the covers 10 and adapted normally to rest on the covers over the slots, being held in position yieldingly by springs 20 20. Pins 21 21 in the covers 10 prevent the slot-covers from being pushed by the springs beyond the slots. The front free ends of the slot-covers 19 are beveled off laterally, so that when the handle of a flat-iron being pushed into the chamber contacts against the end of the slot-cover it will be forced laterally away from over the slot by the wedging action of the handle against the slot-cover.

The flat-irons are placed in the heater by opening a door 7 and pushing the flat-iron into the chamber, the handle of the flat-iron projecting up through a slot 18 and entering the slot to a distance from the front end of the heater. In this position a portion of the slot 18 beyond the handle of the flat-iron would normally be open; but for closing this portion of the slots slot-closers 22 22 are provided, which consist of sheet-metal projecting pieces that are secured to the inner surface of the doors 7 and which are so located that when the doors are closed they pass into the chamber just beneath the covers 10, thereby serving to close the portions of the slots 18 that are not occupied by the handles of the flat-irons. Also these slot-closers 22 are advisably extended laterally adjacent to the door 7, whereby ledges are formed which are substantially a part of the slot-closers, on which the otherwise free edges of the covers 10 may rest when the doors 7 are closed. 23 23 are knobs secured to the door 7 for conveniently opening and closing them.

If heaters embodying my invention are constructed in a large or double form similar to the heater shown in the drawings, it may be desirable to reduce the chamber in size, so as to adapt the heater for use over a single burner or hole in a stove, and for this purpose I provide a partition 24, which is advisably hinged at its rear edge to the standard 12 and is of such size and form that when it is swung across the chamber alongside the standard 12 it serves as a partition dividing the chamber into two parts, one of which may be used alone.

What I claim as my invention is—

1. A flat-iron heater in the form of a chamber and comprising, a rectangular frame of angle-iron adapted to rest on a flat support and forming a laterally-projecting ledge, sheet-metal side walls secured rigidly to the frame at three sides thereof, one or more doors hinged to the adjacent side walls so as to swing laterally closing the fourth or front side of the chamber, a perforated removable bottom resting on the angle-iron frame, and a sheet-metal cover hinged to the rear rigid wall of the chamber and adapted to swing upwardly.

2. In combination in a flat-iron heater, side walls including a side door, a removable floor, a hinged cover provided with a slot for the handle of a flat-iron, a spring-actuated cover over the slot the end of the slot-cover being beveled, and a slot-closer fixed on the door adapted when the door is closed to close a portion of said slot in the cover of the heater.

3. In combination in a flat-iron heater, side walls provided with a frame, a ledge around near the bottom, doors in and forming a part of the side walls, springs normally closing the doors, slot-closers on the doors, a removable floor, a cover-supporting standard on the floor medially, slotted covers adapted to swing upwardly, and slot-covers having beveled ends.

4. In combination in a flat-iron heater, side walls including a plurality of doors, a removable bottom provided with a cover-supporting standard, covers at a distance above the floor and a partition hinged to the standard adapted to be swung across the chamber of the heater dividing it into two parts.

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

CARL AXEL LANDGREN.

Witnesses:

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