F. BALDWIN & W. MILLERKEE.

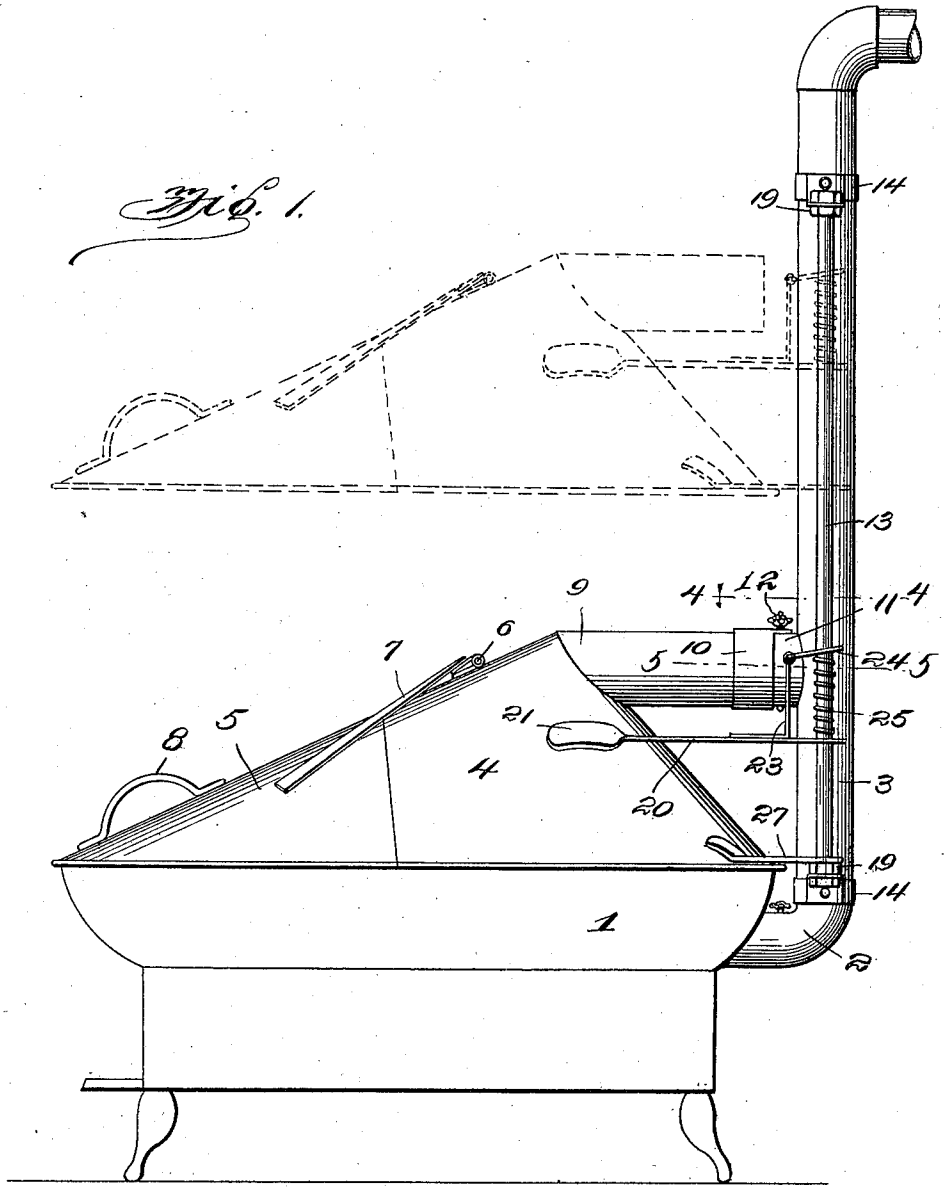
COVER FOR CALDRONS.

APPLICATION FILED JUNE 29, 1909.

996,554. Patented June 27, 1911.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

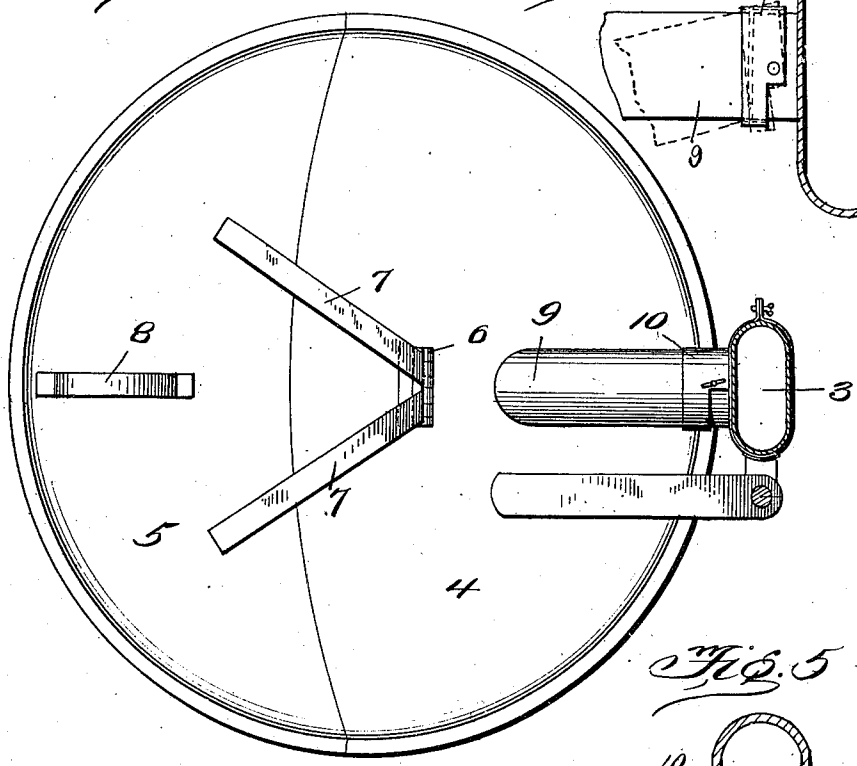


Fig. 4

Fig. 5

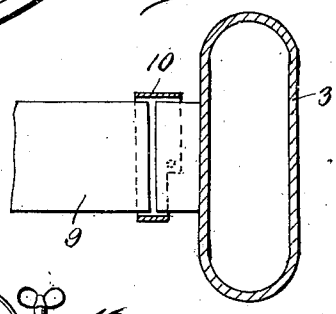
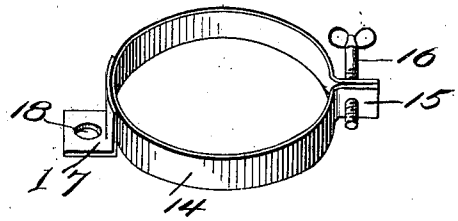


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRED BALDWIN AND WILLIAM MILLERKEE, OF DOYON, NORTH DAKOTA.

COVER FOR CALDRONS.

996,554. Specification of Letters Patent. **Patented June 27, 1911.**

Application filed June 29, 1909. Serial No. 505,016.

To all whom it may concern:

Be it known that we, FRED BALDWIN and WILLIAM MILLERKEE, citizens of the United States, residing at Doyon, in the county of Ramsey and State of North Dakota, have invented new and useful Improvements in Covers for Caldrons, of which the following is a specification.

This invention relates to covers for caldrons or kettles, the object of the invention being to provide a novel form of cover and supporting means therefor whereby a section of the cover may be raised without lifting the whole cover and whereby also the cover, as an entirety, may be raised and held elevated at any suitable distance above the caldron and also swung laterally so as to carry the cover entirely away from over the caldron to give thorough and convenient access thereto.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of a caldron, showing the cover of this invention applied thereto and indicating by dotted lines the manner in which the cover may be elevated. Fig. 2 is a plan view of the same, showing the smoke flue in cross section. Fig. 3 is an enlarged detail perspective view of one of the clamp collars or bands. Fig. 4 is a longitudinal sectional view on the line 4—4 of Fig. 2. Fig. 5 is a sectional end view on the line 5—5 of Fig. 2.

Referring to the drawings, 1 designates the caldron or kettle which may be of any usual or preferred form, the same being shown as provided with an elbow 2 to which the smoke flue is attached, said flue extending upward any suitable distance above the top of the caldron.

The cover which is substantially cone-shaped, embodies a main section or body 4 and a hinged section 5 which is connected to the main section 4 by means of a hinge 6 provided with diverging straps 7 which are fastened in any convenient manner to the hinged section whereby the section 5 may be raised or lowered on the hinge 6 for giving access to the contents of the caldron. Secured to the hinged section 5 is a handle 8, and extending rearwardly and horizontally from the uppermost point of the main section 4 is a tubular neck 9. Extending laterally from the flue 3 is a tubular extension 11 considerably less in length than the neck 9 and, when the main section 4 is arranged to cover the kettle 1, lies in juxtaposition to the end of the tubular extension 9. Passing through the extension 11 is a damper rod 12, an ordinary disk damper being arranged on that portion of the rod located within the extension. A collar is designated by the numeral 10 and as shown in Figs. 1 and 2 one end of this collar receives the extension 11 and has oppositely disposed openings to receive the opposite end portions of the damper rod 12. The collar serves to couple the extensions 9 and 11 when the main section 4 is arranged to cover the kettle as shown in Fig. 1 and in order that the collar may have a pivotal movement on the rod 12 one side of the collar between the openings for the damper rod 12 is reduced in width as clearly shown in Figs. 1 and 2.

Extending along one side of the flue 3 is a vertical guide and clutch rod 13 having its upper and lower extremities fastened to the pipe by means of clamping bands 14 one of which is illustrated in detail in Fig. 3, wherein it will be observed that said band is split at one side and provided with parallel ears 15 through which passes a clamping screw 16 by means of which the clamping band may be confined closely and tightly around the flue at a suitable point. Two are employed one for each end of the vertical rod 13 and each band is provided with a bracket or extension 17 formed with a hole 18 to receive the rod, the rod being threaded and retained in relation to said bands by means of nuts 19 located at opposite sides of the extension or bracket 17, as shown in Fig. 1.

Extending backward from the main section 4 of the cover is an arm 20 one end of which is secured to the cover 4 in any convenient manner while the opposite end is provided with a hole to receive the rod 13. A bracket or post 23 is also mounted on the arm 20 and has pivotally connected to its upper end a clutch 24 in the form of a plate having an opening to receive the rod 13 while between said clutch 24 and the projecting end of the arm 20 there is interposed a spring 25 coiled around the rod 13 and operates with an upward pressure against

the clutch 24 to maintain such clutch normally inclined and in gripping engagement with the rod 13. By grasping the projecting end of the clutch 24 and moving the same downward, the rod 13 is released which enables the cover to be slid up and down on the guide rod 13.

From the foregoing description, it will be seen that access may be had to the caldron by lifting the hinged section 5. To boil water, the damper indicated at 12 may be turned to shut off connection between the cover and flue 3. In the boiling process, the damper is opened thereby allowing the steam and odors to pass through the neck 9 into the flue 3 and outward into the atmosphere. When it is desired to lift the cover off the caldron, the cover is swung bodily to the right from the position shown in Figs. 1 and 2. This movement of the cover will likewise move the collar 10 for a short distance to the right, then owing to the different arcs in which the collar and cover move, the extension 9 will finally move from engagement with the collar 10, after which the clutch 24 is released in the manner above described and the cover may then be elevated as shown in dotted lines in Fig. 1, where it will be held by the action of the clutch 24 upon the rod 13. It will be observed when the cover is swung laterally upon the rod 13 as a center the extremity of the neck 9 will slide out of engagement with the pivoted collar 10, the latter remaining stationary on the extension 11. The main section 4 of the cover is also provided with an arm 27 provided with an opening to receive the rod 13.

We claim:—

1. A caldron provided with an upwardly extending flue, in combination with a cover for said caldron, an arm on said cover, and a stationary guide rod extending parallel to said flue and having said arm slidingly mounted thereon, and a spring-pressed pivoted member for preventing the sliding movement of the arm on said guide rod, permitting the cover to be elevated and sustained at any desired point of elevation above the caldron.

2. A caldron provided with an upstanding steam flue, in combination with a fixed guide rod connected to the flue and extending in parallel relation thereto, a cover for said caldron, an arm on the cover mounted to slide up and down on said rod, and a spring-pressed pivoted clutch carried by said arm having an opening to receive said rod and adapted to sustain the cover at any point of elevation above the caldron.

3. A caldron provided with an upstanding flue or pipe, in combination with a fixed guide rod connected to said pipe and arranged in parallel relation thereto, a cover for said caldron, an arm on said cover mounted to slide up and down on said rod, and a clutch on said arm having an opening to receive the rod, and a spring bearing on the arm and clutch serving to tilt the latter and hold the wall of the opening thereof in binding engagement with the rod.

4. A caldron provided with an upstanding pipe or flue, in combination with a vertical guide rod connected to said flue and extending in parallel relation thereto, a caldron cover, an arm on said cover mounted to slide up and down and also turn on said rod, means for sustaining said arm at any point of elevation on the guide rod, a tubular neck extending laterally from said cover, and a neck-receiving collar having a jointed connection with the flue adapting it to turn on a vertical axis as the cover is swung in a horizontal plane.

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

FRED BALDWIN.
WILLIAM MILLERKEE.

Witnesses:
BEN SHAW,
BARNEY LANGDON.