(No Model.)

J. M. ROHM.

KETTLE SUPPORTER.

No. 425,701. Patented Apr. 15, 1890.

Fig. 1.

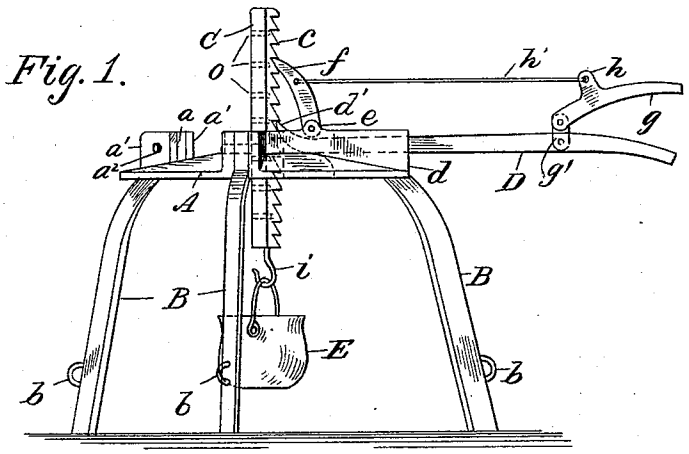


Fig. 2.

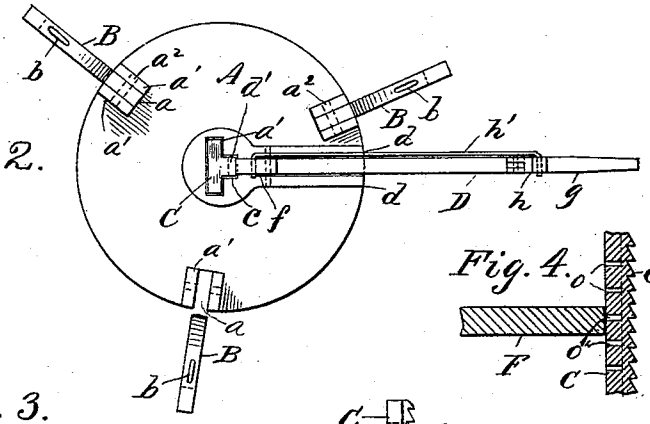
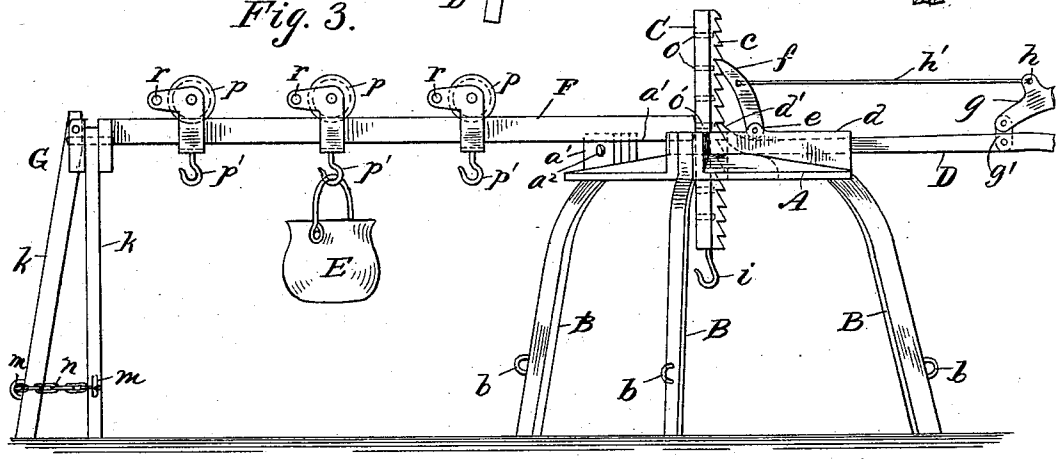


Fig. 4.

Fig. 3.



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JACOB M. ROHM, OF GAPSVILLE, PENNSYLVANIA.

KETTLE-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 425,701, dated April 15, 1890.

Application filed January 31, 1890. Serial No. 338,798. (No model.)

To all whom it may concern:

Be it known that I, JACOB M. ROHM, of Gapsville, in the county of Bedford and State of Pennsylvania, have invented a new and useful Improvement in Kettle-Supporters, of which the following is a full, clear, and exact description.

Where large kettles are employed to contain liquids of different kinds which have to be heated either in the open air or under cover, it has been usual to seat these vessels over a fire upon a ring of metal that is provided with three or more legs; or a horizontal metallic bar supported at its ends has been frequently used to support a large heavy kettle in suspension over the flame.

As usually supported over a fire, it was difficult to move a kettle laterally or adjust it vertically when this was necessary to renew the fire or afford room for another kettle over the flame.

One object of my invention is to provide an adjustable device for the support of a kettle over a fire, whereby heavy and large kettles may be raised or lowered while in use, as occasion may require, the change of position being rendered safe and expeditious by the simple devices provided.

A further object is to furnish a means for the support of two or more kettles over a fire which will permit the safe elevation or lowering of the kettles while suspended, as well as their lateral adjustment on the support.

With these ends in view my invention consists in the construction and combination of parts, as is hereinafter described, and indicated in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the main portion of the device with the extension-bar removed. Fig. 2 is a top plan view of the portion of the kettle-support shown in Fig. 1. Fig. 3 is a side elevation of the complete device connected and erected to afford support for several kettles; and Fig. 4 is an enlarged sectional elevation of a portion of the extension-bar and suspension-bar, showing the manner of removably attaching the former to the latter-named piece.

A represents an upwardly-dished circular cap-plate having spaced radial notches cut in the edge a proper depth to receive the ends of the bent legs B, as shown at *a* in Fig. 2, where one leg is broken away to expose the slot. Upwardly-projecting flanges *a'* are formed on the opposite edges of the radial slots *a*, which are transversely perforated to receive pins a^2, that are inserted through the perforated ends of the legs B and hold them jointed to the plate A, so that they may be spread apart sufficiently to afford a substantial support for the plate.

At a proper distance from the lower ends of the legs B staples *b* are secured to project therefrom and receive a chain or wire rope (not shown) which may be therein inserted and made to encompass the legs, said flexible fire-proof stand or chain being adapted to limit the outward spread of the legs B in an obvious manner.

At the center of the cap-plate A a T-shaped aperture is formed, which receives the vertical suspension-bar C, said bar having a series of ratchet-teeth cut on one face, which teeth hook downwardly, producing a rack *c* thereon. Two parallel flanges *d* are formed on the upper side of the plate A, which extend from the side of the bar C that has ratchet-teeth on it, and are spaced apart of a width about equal to that of the ratchet-cut rack *c*, for the introduction of a lever D, which is provided with an upwardly-bent toe *d'*, that will engage the ratchet-teeth on the rack *c* and by a vibration of the lever elevate or lower the suspension-bar C. On the upper edge of the flanges *d*, at a suitable distance from the rack *c*, there are opposite ears *e* formed, which are perforated laterally to be pivotally connected to the upwardly-projected pawl *f*, which latter is curved toward the rack *c* and shaped on its free end to engage the ratchet-teeth of the rack.

On the outer end portion of the lever D a short rocking tripping-lever *g* is pivotally attached by the intermediate short links *g'*. Said tripping-lever, extending toward the free end of the main lever D, may be operated conveniently therewith or separately. An ear *h* is formed on the tripping-lever *g*, in which the link-bar *h'* is loosely secured, said rod being hooked into a perforation in the

pawl *f*, so that a vibration of the tripping-lever *g* will correspondingly rock the pawl on its pivot and cause it to engage or release the teeth of the rack *c*.

Upon the lower end of the suspension-bar C a hook *i* is made to depend, on which a kettle E is hung when in use. In operation this portion of the device may be employed when one kettle only is to be used, and it is evident that by a proper manipulation of the levers D and *g* the bar C may be adjusted for height to suit the fire which is to be placed below the kettle E. When several kettles are needed to effect the work required in the matter of heating liquids of any kind, a long metal bar F is conjunctively used. Said extension-bar F is of such dimensions that ample room is afforded to suspend two or more kettles thereon, and to facilitate the same the bar is supported at its outer end on a tripod G, the legs *k* of which are furnished with staples *m* for reception of a binding chain or wire rope *n*, (see Fig. 3,) which, when it is bound around the legs, will prevent them from spreading and permit these legs to be drawn toward each other or spread apart, and thus change the height of the tripod as may be necessary. The inner end of the extension-bar F is provided with a projection *o'*, which will enter one of the series of perforations *o* made for its introduction in the side of the suspension-bar C, so that this end of the extension-bar may be elevated with the suspension-bar by manipulation of the main lever D and tripping-lever *g*, any degree of elevation being retained by the interlocking action of the pawl *f*. Upon the extension-bar F the bracket-supporting pulleys *p* are placed so that these may roll thereon, the depending hooks *p'* providing means for the removable suspension of one or more kettles thereon.

In operating the device with the extension-bar portion in use the tripod G is adjusted to support the outer end secure at a proper height and the inner end elevated with the ratchet-and-lever mechanism, already explained, to bring the extension-bar F level.

Should it be desired to move the kettles in or out on the bar, this can be done without handling them by raising or lowering the inner end of the bar F, when by gravity the kettles will roll out or in on the bar, as may be required, whereby a kettle may be removed from the fire or returned over the fire in a safe and easy manner; or a bar with a hook at its end may be made to engage the holes in the ears *r* and move the kettles.

It is to be understood that the suspension-bar C may be used to support a kettle along with the extension-bar hooks *p'*, so that several kettles may be simultaneously in use to heat liquids.

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

1. The combination, with a plate provided with a central aperture and legs and with parallel flanges extending from its central aperture radially, a suspension-bar provided with a rack and a hook and passing through this aperture, and a pawl pivoted on these flanges, of a main lever adapted to engage the teeth of the rack and pass between the radial flanges to effect such an engagement, a tripping-lever pivoted on the main lever, and a connecting link-bar loosely secured to the tripping-lever and pawl, substantially as set forth.

2. The combination, with a cap-plate provided with a central aperture and legs adjustable thereon which are pivoted near its edge, a suspension-bar having a ratchet-cut rack and a series of perforations in its side, which bar may slide in the aperture of the cap-plate, flanges on the cap-plate which extend outward from the rack parallel to each other, a main lever which may engage the rack-teeth, a tripping-lever pivoted on the main lever, and a link-bar which connects the pawl and tripping-lever, of an extension-bar that is supported on a tripod at one end and has adjustable connection with the suspension-bar that slides in the cap-plate, substantially as set forth.

3. A kettle-support comprising a circular cap-plate, bent legs pivoted thereon, a suspension-bar having a rack and hook on it, which bar slides in a central aperture in the cap-plate and has a series of perforations in its side, radial flanges on the cap-plate, a pawl pivoted thereon, a main lever which is adapted to slide between the radial flanges and engage the rack-teeth, a tripping-lever pivoted on the main lever near its free end, a connecting-link for the tripping-lever and pawl, an extension-bar which is removably attachable to the suspension-bar by engagement with its perforations, a tripod, and a series of bracket-pulleys which may roll on the extension-bar, substantially as set forth.

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Witnesses:
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