

(No Model.)

C. F. EBLING.
TEA KETTLE.

No. 554,250.

Patented Feb. 11, 1896.

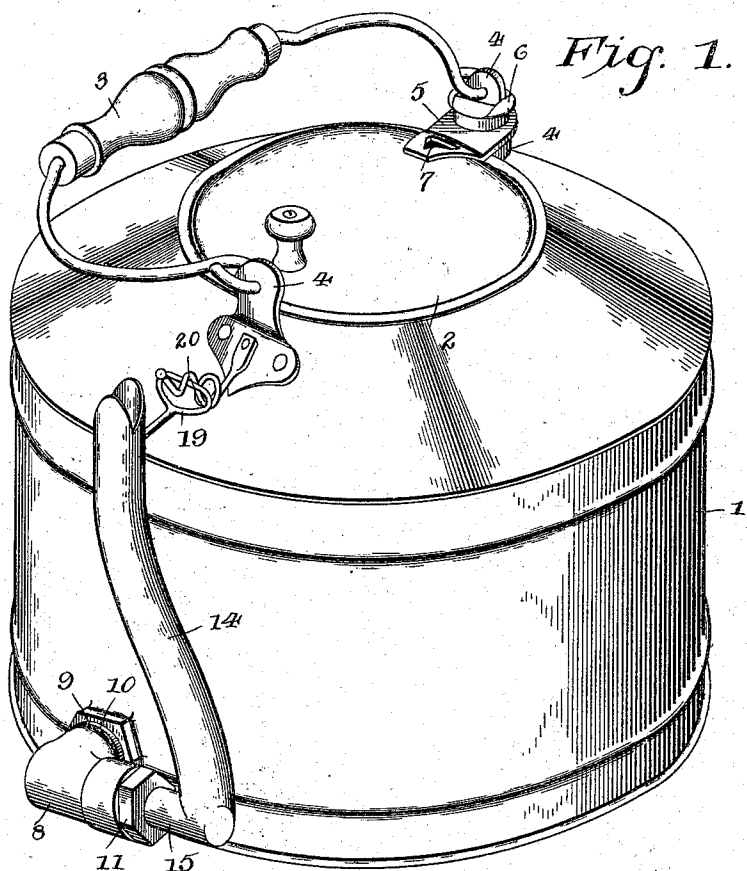


Fig. 2.

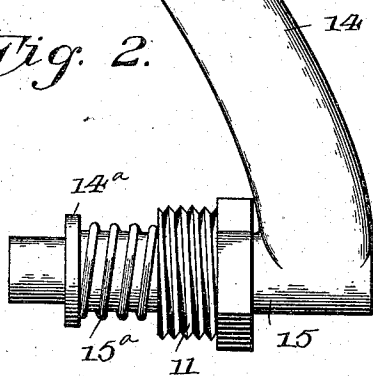
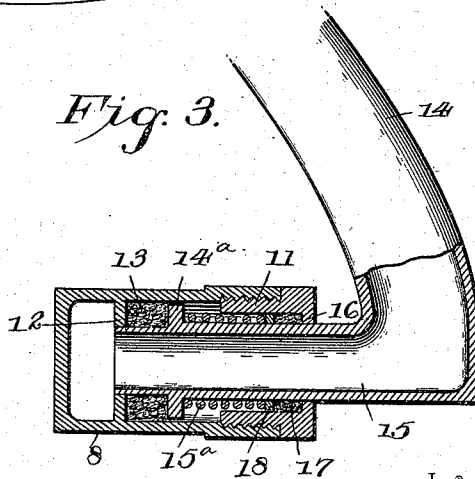


Fig. 3.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES FREDERICK EBLING, OF CALLENSBURG, PENNSYLVANIA.

TEA-KETTLE.

SPECIFICATION forming part of Letters Patent No. 554,250, dated February 11, 1896.

Application filed June 24, 1895. Serial No. 553,884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FREDERICK EBLING, a citizen of the United States, residing at Callensburg, in the county of Clarion and State of Pennsylvania, have invented a new and useful Tea-Kettle, of which the following is a specification.

This invention relates to an improvement in tea-kettles, and has for its object to improve the construction shown and described in a former patent granted to me July 24, 1894, No. 523,627, for improvement in tea-kettles, with a view to providing a tighter and more efficient joint between the swinging spout and the elbow projecting from the lower portion of the body of the kettle.

Other objects and advantages of the invention will appear in the course of the subjoined description.

The invention consists in certain novel features and details of construction and arrangement of parts, as hereinafter fully described, illustrated in the drawings, and finally embodied in the claims.

In the accompanying drawings, Figure 1 is a perspective view of an improved tea-kettle constructed in accordance with this invention. Fig. 2 is a front elevation of the tea-kettle spout. Fig. 3 is an enlarged sectional view showing the manner in which the swinging spout is coupled to the elbow.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the drawings, 1 designates the tea-kettle body, which is preferably of the cylindrical form shown and provided with a conical top 2, having therein a central opening of any desired size.

3 designates a bail-handle having its ends looped to engage perforated ears riveted or otherwise secured to the conical top of the kettle and adjacent to the central opening therein. One of these ears 4 is provided with an upwardly-projecting pintle and shoulder for the reception of a perforated ear or lug on the hinged top of the kettle, (indicated at 5.) This pintle is extended upwardly in the shape of a perforated ear to receive one of the looped ends of the bail-handle, a washer 6 being interposed between the loop of the handle and the ear on the hinged top 5. All of these

parts are constructed in a manner similar to that described in my said former patent referred to, and need not, therefore, be further described herein.

In order to provide for the escape of steam a triangular aperture 7 is formed in the hinged top 5 in line with a similar aperture in the overlapping inner end of the earpiece secured to said top and by means of which said top is hinged to the body of the kettle.

8 designates a tubular elbow, one portion of which is externally screw-threaded to engage an internally-threaded boss 9 at the base of the kettle, and also formed with a shoulder 10, between which and the boss 9 an annular packing-washer, preferably of asbestos, is adapted to be interposed and compressed for forming a thoroughly water-tight joint. Such washer may, however, be dispensed with if desired and the shoulder 10 turned inward against the boss 9 and soldered. The other end of the elbow is enlarged in diameter and internally screw-threaded to admit of the insertion and adjustment of an externally-threaded sleeve 11, and is also formed with an internally-arranged shoulder 12, against which is placed an annular packing-washer 13, preferably of asbestos.

The kettle-spout 14 is made preferably in the ogee form illustrated in the drawings, and formed at its lower end with a horizontal tubular extension 15, adapted to lie within the corresponding portion of the elbow 8, the extremity of said extension 15 being reduced in diameter, so as to fit snugly within the inner opening formed by the annular shoulder 12, as shown in Fig. 3. Intermediate the horizontal extension 15 and the reduced extremity thereof is an annular flange 14^a of a diameter corresponding to the internal diameter of the branch of the elbow in which it fits, the asbestos packing-washer 13 being disposed around the reduced extremity of the horizontal portion of the spout and located between said flange or shoulder 14 and the inner annular flange 12, thus affording a tight joint at this point.

The internal diameter of the sleeve 11 is enough larger than the external diameter of the horizontal extension of the spout to admit of a spiral spring 15^a being disposed around said horizontal extension and within

said sleeve. Said sleeve is formed in its front end with a circular opening just large enough to permit the passage of the spout extension, and a shoulder 16 is thus formed, against which is placed an annular packing-washer 17 of asbestos. This packing-washer embraces the spout extension closely and has arranged between the same and the spring 15 a metallic washer 18. The opposite end of the spiral spring 15 bears against the annular shoulder 14, and when the sleeve 11 is screwed inward the packing-washer 17 will be pressed snugly around the spout extension and against the shoulder 16.

By means of the construction above described it will be seen that the spiral spring 15 serves at one and the same time to compress both of the packing-washers 13 and 17 arranged respectively within the elbow 8 and the adjustable sleeve 11. Should the joint at any time become worn and begin to leak, by screwing inward the sleeve 11 the packing-washers may be further compressed in such manner as to stop the leak. At the same time by unscrewing the adjusting-sleeve 11 the spout, together with its extension, may be removed from the kettle, thus facilitating the cleaning of both.

The upper extremity of the swinging spout carries a hand-hold 19, which projects inwardly toward the body of the kettle and has its inner end looped, as shown, to engage a spring-catch 20, which is formed from a single piece of spring-wire secured in any convenient manner at its inner end to one of the bail-handle ears, as shown, and formed at its outer end with a downward bend or lip for taking over the looped inner end of the hand-hold. Intermediate its ends said spring-catch is given one or more coils to afford the required elasticity to the catch for adapting the same to spring over the hand-hold when the latter is raised and thus to hold the spout in vertical position.

The improved tea-kettle herein described is very convenient and efficient in use, and by providing for the swinging of the discharge-spout the necessity for lifting and tilting the kettle is obviated.

The form of joint between the swinging spout and the kettle, as hereinabove described, will be found to be a thoroughly efficient one by reason of the expansive action of the spiral spring against the packing-washers located

and arranged as described, and the ease with which the tension of such spring may be regulated.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. The combination with a kettle, of an elbow secured thereto and having an internally-threaded horizontal portion, a swinging spout having a horizontal tubular extension, an annular flange formed on said extension, an externally-threaded adjusting-sleeve screwing into said elbow and surrounding the spout extension, an annular packing-washer arranged within said adjusting-sleeve and around the spout extension, and a spiral spring disposed around said extension and interposed between said annular flange and the packing-washer, substantially as specified.

2. The combination with a kettle, of an elbow secured thereto and having an internally-threaded horizontal extension and also formed with an internally-arranged annular shoulder, a swinging spout formed with a horizontal tubular extension arranged within the horizontal portion of said elbow and having its extremity reduced in diameter to fit within the opening within the annular flange in the elbow, a packing-washer interposed between such flange and an annular shoulder on the spout extension, a spiral spring disposed around the spout extension and bearing at its inner end against a shoulder on said extension, and an adjusting-sleeve having a threaded connection with the elbow and capable of regulating the tension of said spring, substantially in the manner and for the purpose described.

3. The combination with a kettle, of a discharge-spout hinged thereto and provided at its swinging end and upon its upper surface with a hand-hold, and a spring-wire finger secured rigidly to and projecting radially from the top of the kettle and provided with a V-shaped bend or crimp forming a catch-lip for engaging said hand-hold, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES FREDERICK EBLING.

Witnesses:

JOHN CAMPBELL,
A. W. HARKLESS.