

Tea Kettle.

Patented July 9, 1867.

A perspective view of a bottle (1) with a stopper (2) and a label (3). The bottle has a main body (4) and a neck (5). The stopper (2) is shown in a cross-section view, revealing its internal structure (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). The label (3) is attached to the main body (4) and features a central circular design (101). The neck (5) is shown in a cross-section view, revealing its internal structure (102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200). The bottle is shown in a perspective view, with the stopper (2) and label (3) clearly visible.

Fig. 5.

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IMPROVEMENT IN TEA-KETTLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EZRA RIPLEY, of the city of Troy, in the county of Rensselaer, and State of New York, have invented a new and useful Improvement in Tea-Kettles, of which the following is a sufficient description, reference being had to the accompanying drawing, in which—

Figures 1 and 2 are full top views.

Figure 3, a section at the line *z z* in fig. 1.

Figure 4, a section at the line *y y* in fig. 2.

Figure 5, a top view without the cover; and

Figure 6, a plan of the under side of the cover; all of a tea-kettle which embodies one form of this invention, like parts being marked by similar letters in the various figures.

This invention consists in making a tea-kettle with an edgewise swinging cover, A, pivoted to or upon an inwardly extended part, *b*, of a rim, C, around the pouring-in opening D, in the top of the body E of the tea-kettle, in combination with so constructing the tea-kettle that if the cover be partly or nearly closed, and the tea-kettle then inclined forward, as in pouring water out of the spout G, the weight or gravity of the cover will then make, or tend to make, the cover swing shut and stay shut, so as to prevent the escape of steam upon the hand of a person using the tea-kettle.

In carrying out this invention in manufacturing tea-kettles, I make the inwardly extended part *b* of any suitable size and shape, and locate it at any suitable point whatever in the periphery of the rim, and pivot the cover thereon by means of any suitable device or devices, and so that, in every case, the centre of gravity of the cover shall move in a circular direction at first, more or less rearward from the spout, in swinging the cover sufficiently off from its closed position to allow water to be conveniently poured into the tea-kettle through the opening in its top, and employ any suitable device or devices to prevent the weight of the cover from swinging the cover off from over the opening in the top of the tea-kettle, whenever the cover shall be closed, and the tea-kettle then inclined forward, as in pouring water out of the spout; and construct the tea-kettle with either a swinging or a permanently standing bail or lifting handle.

As one mode of carrying out my said invention, I have, in the aforesaid drawing, shown, in black lines, a tea-kettle with a cover, A, pivoted to a lug or projection, *b*, on the inner side of the rim C, and at one side of the line *z z*, fig. 1, of the spout, and about transversely opposite to the centre of the opening in the top, by means of a collar, *f*, fig. 4, extended loosely through, and having a head projecting over the rim of a hole, *h*, fig. 6, through the cover, and fastened to the said inwardly extended part *b* by a screw-bolt, *i*, fig. 4, and nut *j*, reaching through the collar *f* and part *b*; and with a stop, *l*, figs. 3 and 6, so formed and arranged on the under side of the cover A, and within the rim C, as to limit the edgewise movements of the cover, and prevent the latter when closed, as in figs. 1 and 3, from swinging off by its own gravity toward the spout G, when the tea-kettle shall be inclined forward to pour water out of the spout; and with a swinging bail, M, hinged to lugs N N', of which the rear one, N', is lower than the rim C, so that the cover A can be swung off by hand over the rear bail-lug when the bail is turned down, as in figs. 2 and 4. And with this construction I sometimes have the lower parts of the bail bent outward and inserted in the lugs N N', as indicated by the dotted lines at *o o* in fig. 3, so that the cover can be swung off over the rear bail-lug, when the bail is standing as well as when it is turned down. In figs. 2 and 5 of the aforesaid drawing I have represented, by red lines, the inwardly extended part *b* and the cover A, pivoted thereon at various points in the periphery of the rim C; and have indicated by arrows in fig. 5 the various rearward directions in which the centre of the cover will at first move in being swung off from over the opening D, in case the cover shall be pivoted on the part *b* at the points *k k¹ k² k³*, according to this invention. Thus, if the cover be pivoted at *k* in fig. 5, the centre of the cover will at first move off in the direction indicated by the arrow *x*; or if pivoted at *k¹*, in the direction of the arrow *x¹*; or if at *k²*, as indicated by one or the other of the arrows *x²*; or if at *k³*, as shown by the arrow *x³*. And when the cover is pivoted on the lug *b*, at the point *k³* in fig. 5, the cover may then be swung off inside of the circle of the rear bail-lug N', and while the bail M in fig. 5 is standing.

A tea-kettle constructed according to my invention, as hereinbefore set forth, costs no more, and is a far

more convenient tea-kettle to use, than one having an edgewise swinging cover of like form pivoted to a like inwardly extended part of the rim around the pouring-in opening, but constructed so that the cover can be freely swung off from over that opening in a direction at first forward toward (instead of rearward from) the spout, and so that when the cover is partially open, and the tea-kettle then inclined forward to pour out water, the cover will remain open, and if shut and inclined, will, by its own gravity, swing partly open, and allow steam to escape on the hand of the person using the tea-kettle. And a tea-kettle which embodies my aforesaid invention generally costs less, and is less liable to have the cover broken off in transportation and use, and is no less safe against the escape of steam when the tea-kettle is inclined forward to pour out water, and is of a more compact or close and symmetrical form, and has the part to which the cover is pivoted more completely concealed by the cover than a tea-kettle of like capacity and material, but, having an edgewise swinging cover, formed with an outwardly-extended arm or neck, pivoted upon a raised projecting seat formed on the body of the tea-kettle, outside of the rim around the pouring-in opening, and so that the cover can be freely swung off by hand in a circular direction, at first somewhat rearward from the spout, and so that if the cover shall be partially or nearly closed, and the tea-kettle then inclined forward, the weight of the cover will make or tend to make the cover swing shut and stay shut.

What I claim as my invention, and desire to secure by Letters Patent, is—

A tea-kettle, having an edgewise swinging cover pivoted to or upon an inwardly-extended part, *b*, of a rim around the opening in the top of the tea-kettle, when the whole is so constructed that if the cover be partially or nearly closed, and the tea-kettle then inclined forward, as in pouring water out of the spout, the weight or gravity of the cover will then make, or tend to make, the cover swing shut and stay shut, substantially as herein set forth.

EZRA RIPLEY.

Witnesses:

LESLIE SMYTH,
AUSTIN F. PARK.