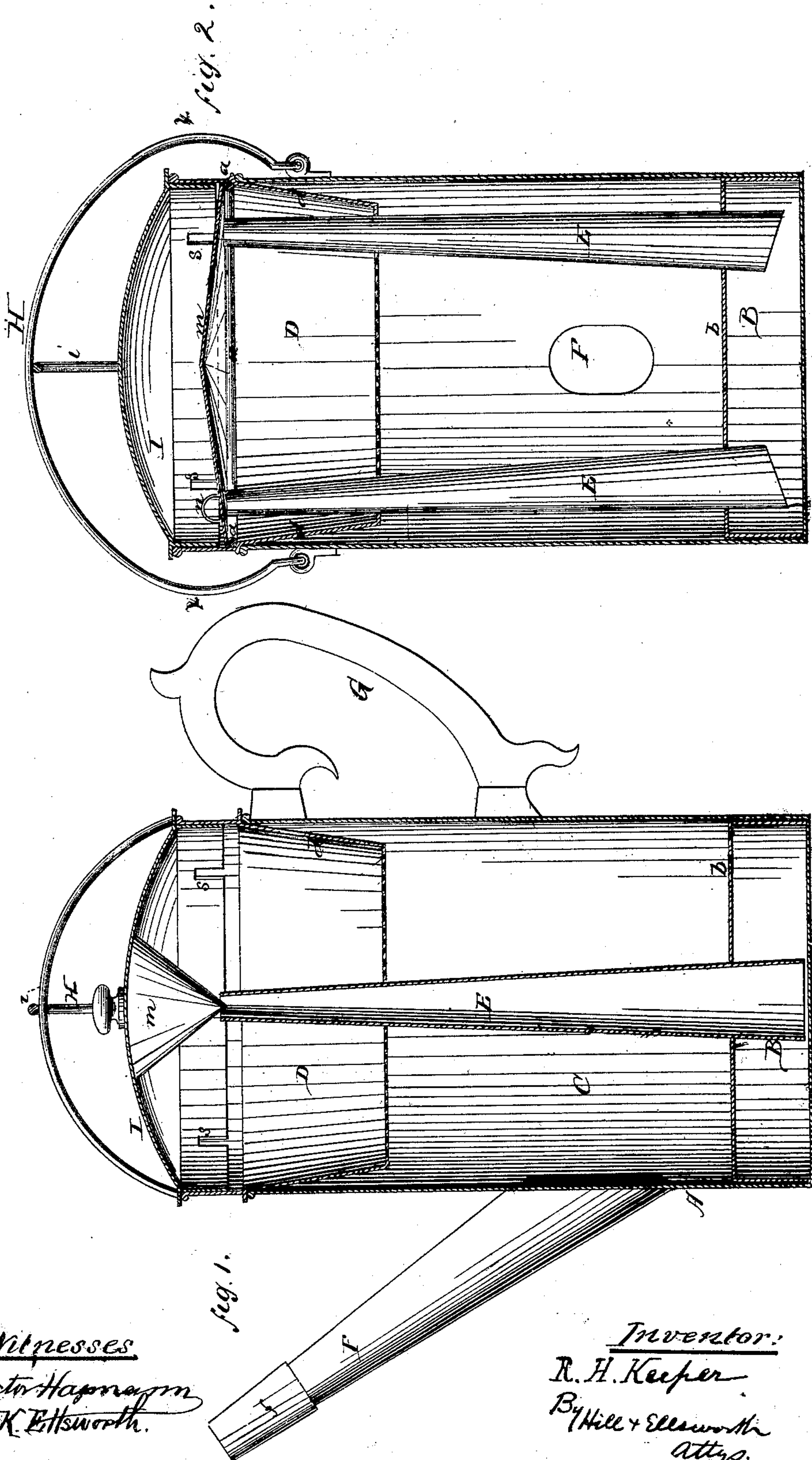


R. H. KUPER.

Coffee Pot.

No. 113,674.

Patented Apr. 11, 1871.





# United States Patent Office.

RICHARD H. KUPER, OF LOCKPORT, NEW YORK.

Letters Patent No. 113,674, dated April 11, 1871.

## IMPROVEMENT IN COFFEE-POTS.

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, RICHARD H. KUPER, of Lockport, in the county of Niagara and the State of New York, have invented a new and improved Coffee-Pot; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical section illustrating my apparatus when but a single spouting-tube is employed.

Figure 2 is a similar section illustrating the same with two spouting-tubes.

Similar letters of reference in the accompanying drawing indicate corresponding parts.

This invention relates to that class of coffee-pots which contain a detachable apparatus consisting of a steam-generating chamber at the bottom, a dripping-chamber at the top, and a tube connecting the steam-generator with the dripper.

My invention consists of an improved construction of such apparatus, which renders it less expensive and more convenient and effective than heretofore.

In the drawing—

A is the body of the coffee-pot, of any suitable shape;

B is the steam-generating chamber;

C is the chamber containing the extract;

D is the dripping-chamber;

E is the tapering-tube connecting the steam-generating with the dripping-chamber;

F is the nose or spout of the coffee-pot, provided with a cap, *f*, to prevent the escape of the aroma;

G is the handle;

H is a hinged bail for convenience in handling the coffee-pot, and for fastening down the cover when necessary; and

I is the cover provided with a fixed bail, *i*, which, when the cover is on, is designed to stand at right angles with the hinged bail.

The inverted cup, *b*, which forms the steam-chamber, and the tube E are connected together, and as a whole are readily removable from the coffee-pot to facilitate its cleansing or to allow of its use for other purposes.

The tube E extends below the top of chamber B, nearly to the bottom of the coffee-pot, so that the steam will rise above its open end and only boiling water will be carried up through it; my object being to make the extract by means of a jet or jets of boiling water, and not by a jet of steam alone, nor steam mingled with a small quantity of water, as heretofore.

The water being thus forced up by the pressure of steam in the upper part of chamber B is sprayed

over the whole surface of the coffee in chamber D by the action of a deflector, *m*, arranged directly above the open end of the tube E, as shown.

When only a single tube, E, is employed, as represented in fig. 1, I make the deflector in the shape of an inverted cone soldered to the under side of the cover I, with its apex directly over and close to the center of the mouth of tube E, in which case the jet of water impinging against the cone will be dashed in a sheet of spray equally in every direction.

When two tubes, E, are employed, arranged near the walls of the coffee-pot, as represented in fig. 2, I prefer to make an independent cone, having a small handle, *n*, and insert it in the chamber, its edge resting upon a wire flange or ledge, *a*, soldered around the walls of the chamber, and its inclined roof directly over and close to the tops of the tubes, in which case its action upon the two jets will result in a very uniform distribution of the boiling liquid over the contents of the chamber.

I prefer the single tube and the inverted conical deflector on account of their superior cheapness of construction and their convenience in handling and cleaning, in all which respects they possess great advantages over the old style of deflector attached directly to the tube and supported by it.

Both the steam generated in the coffee-pot and the spouting column of water may sometimes be sufficiently powerful to raise the cover I and allow the aroma to escape, if not even to throw the boiling water over the sides of the coffee-pot. To remedy this I provide the stiff bail *i*, attached to the cover, and the bail H, hinged to ears upon the side of the pot A, and capable of being turned over the bail *i*, as shown in fig. 2, so as to lock the cover down.

The hinged bail may be constructed of spring wire and made to curve outward at the sides, as shown at *x x*, fig. 2, so that when the pressure of the steam becomes so great as to endanger the safety of the apparatus the elastic wire will straighten out and allow the cover to rise far enough to permit the escape of some of the steam, when its elasticity will cause it to instantly force the cover down again and close the vessel steam-tight as before.

Little vertical slots, *s s*, may be made in the rim of the cover to allow the steam to escape without lifting the cover entirely out of place.

Having thus described my invention,

What I claim as new therein, and desire to secure by Letters Patent, is—

1. In connection with the chambers B C D and tube or tubes E of a coffee-pot, the independent conical deflector *m*, supported by the walls of the

sessel, and operating in combination with said parts substantially as described and for the purposes specified.

2. In a coffee-pot having a spouting-tube, E, operating as described, the fixed bail *i* of the cover, in combination with the bail H hinged to the pot A, when the latter is constructed to lock over the former, as herein set forth, and for the purposes specified.

3. The outward curving of said bail H, as shown *x x*, whereby it is made to operate as a spring

when employed in combination with the cover I of a coffee-pot, substantially as described and for the purposes set forth.

4. The slots *s s* in the cover I of a coffee-pot, in combination with the bails H *i*, substantially as and for the purposes described.

RICHARD H. KUPER.

Witnesses:

GEO. H. MOODY,  
J. C. STANTON.