

Specification of George Bradshaw Watkins : obtaining infusions or extracts.

Contributors

Watkins, George.

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A.D. 1856 N^o 1600.

S P E C I F I C A T I O N

OF

GEORGE BRADSHAW WATKINS.

OBTAINING INFUSIONS OR EXTRACTS.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

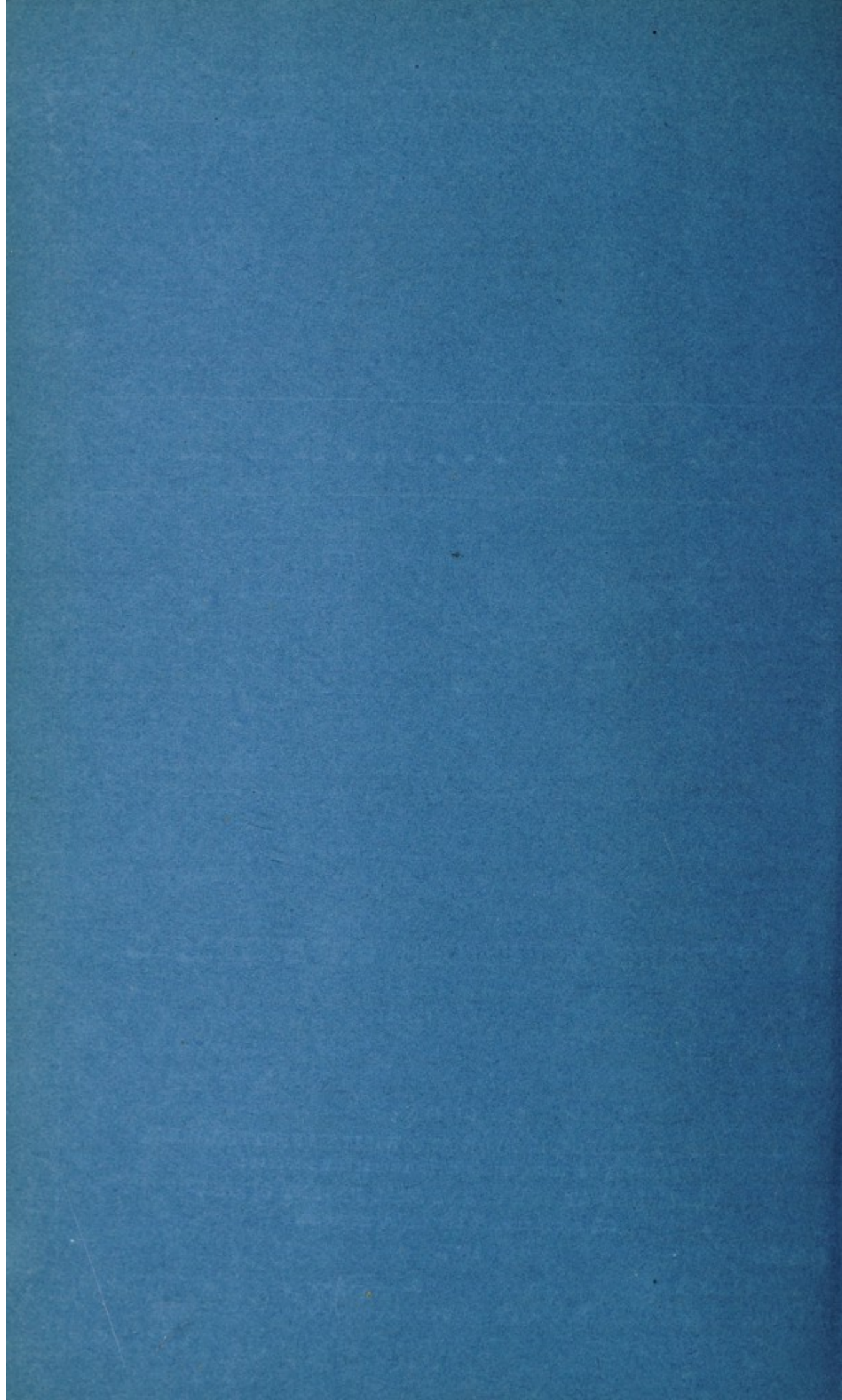
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

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Price 5d.

1857.





A.D. 1856 N° 1600.

Obtaining Infusions or Extracts.

LETTERS PATENT to George Bradshaw Watkins, of Godmanchester, in the County of Huntingdon, Clerk, for the Invention of "IMPROVED APPARATUS FOR OBTAINING INFUSIONS OR EXTRACTS FROM VARIOUS SUBSTANCES."

Sealed the 11th November 1856, and dated the 8th July 1856.

PROVISIONAL SPECIFICATION left by the said George Bradshaw Watkins at the Office of the Commissioners of Patents, with his Petition, on the 8th July 1856.

I, GEORGE BRADSHAW WATKINS, of Godmanchester, in the County of
5 Huntingdon, Clerk, do hereby declare the nature of my said Invention for
"IMPROVED APPARATUS FOR OBTAINING INFUSIONS OR EXTRACTS FROM VARIOUS
SUBSTANCES," to be as follows:—

This Invention relates to vessels or apparatus such as are used for obtaining
infusions or extracts from coffee, tea, or other similar substances, and consists
10 of the following parts:—Fitting closely in the interior of the external casing is
a sieve or percolator, of a cylindrical or other convenient form, having the
bottom finely perforated, and provided in the centre with a cylinder, extending
upwards to about the level of the top of the percolator. This cylinder is also
finely perforated, and is provided with a piston, which can be moved upwards
15 or downwards by means of a screw or rack connected thereto, and is suspended
or supported by a bar or plate extending across the upper part of the vessel.

Watkins' Apparatus for Obtaining Infusions or Extracts from various Substances.

The lower part of the exterior casing forms a reservoir or receiver, and is furnished with a tap, by means of which the infusion or extract is drawn off. The coffee or other substance and the water are placed in the annular space between the sides of the percolator and the perforated cylinder, where the dregs will remain, leaving the extract or infusion perfectly clear.

5

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said George Bradshaw Watkins in the Great Seal Patent Office on the 19th December 1856.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, GEORGE BRADSHAW WATKINS, of Godmanchester, in the County of Huntingdon, Clerk, 10 send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Eighth day of July, in the year of our Lord One thousand eight hundred and fifty-six, in the twentieth year of Her reign, did, for Herself, Her Heirs and successors, give and grant unto me, the said 15 George Bradshaw Watkins, Her special licence that I, the said George Bradshaw Watkins, my executors, administrators, and assigns, or such others as I, the said George Bradshaw Watkins, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully 20 might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "IMPROVED APPARATUS FOR OBTAINING INFUSIONS OR EXTRACTS FROM VARIOUS SUBSTANCES," upon the condition (amongst others) that I, the said George Bradshaw Watkins, my executors or administrators, by an instrument in 25 writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

30

NOW KNOW YE, that I, the said George Bradshaw Watkins, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement in writing, and on reference to the Drawings hereunto attached, that is to say:—

35

Watkins' Apparatus for Obtaining Infusions or Extracts from various Substances.

My said Invention relates to vessels or apparatus such as are used for obtaining infusions or extracts from coffee, tea, or other similar substances, and consists of the following parts:—Fitting loosely in the interior of the external casing is a sieve or percolator, of a cylindrical or other convenient
5 form, having the bottom finely perforated, and provided in the centre with a cylinder, extending upwards to about the level of the top of the percolator. This cylinder is also finely perforated, and is provided with a piston, which can be moved upwards and downwards by means of a screw or rack connected thereto, and is suspended or supported by a bar or plate extending across the
10 upper part of the vessel. The lower part of the exterior casing forms a reservoir or receiver, and is furnished with a tap, by means of which the infusion or extract is drawn off. The coffee or other substance and the boiling water are placed in the annular space between the sides of the percolator and the perforated cylinder, where the dregs will remain, leaving the
15 extract or infusion perfectly clear.

A modification of this Invention, which, by experiment, I have found to be more suitable for making simple infusions of tea or coffee, is constructed as follows:—The percolator above mentioned is used without the perforated cylinder and piston, the bottom of the said percolator being made either of
20 perforated metal, or of cloth, or other suitable filtering material.

And in order more distinctly to illustrate my Invention I have annexed hereto a Sheet of Drawings, representing this last-named modification constructed as a tea or coffee urn for ordinary domestic use, drawn about half size.

25 In the Drawing, Figure 1 is an external view of the apparatus complete; Figure 2 is a vertical section, taken through about the middle of the same; and Figure 3 is a view of the percolator detached. *a, b, c*, represent the exterior or body of the vessel supported upon the foot or base *d*; *e* is the lid; and *f* the percolator, the bottom *g* of which is represented as made of cloth;
30 the percolator is provided with a handle *h*, for convenience of removing the same from the vessel when required. When the percolator is placed in the vessel (see Figure 2) it finds its bearing a short way down the inclined or conical portion *b* of the body of the vessel, and leaves an air chamber all round between it and the upper cylindrical part *a* of the same. When the
35 tea or coffee, &c. are placed in the percolator and boiling water poured thereon the percolator acts as a valve, and allows the air from the lower cylindrical portion or reservoir *c* of the vessel to escape; and when the parts *b* and *c* are full the extract rises in the space between the percolator and the body *a* of the vessel, until it reaches the level of the fluid in the filter. When the tap *i* is turned

Watkins' Apparatus for Obtaining Infusions or Extracts from various Substances.

and the extract is allowed to flow out, as the level of the extract outside the percolator recedes, it causes a pressure of the atmosphere on the surface of the fluid in the percolator, forcing it through the cloth at the same rate until the whole of the fluid extract has been drawn off, and the extract thus made will be found perfectly clear and brilliant.

Having thus described the nature and object of my said Invention for improved apparatus for obtaining infusions or extracts from various substances, together with the manner of carrying the same into practical effect, I would remark, in conclusion, that I claim as my Invention; the construction of apparatus above described, without confining myself to the precise form, 10 dimensions, or other details of the apparatus, provided always that the peculiar character or principle of my Invention be adhered to.

In witness whereof, I, the said George Bradshaw Watkins, have hereunto set my hand and seal, this Fifth day of December, in the year of our Lord One thousand eight hundred and fifty-six.

G. B. WATKINS. (L.S.)

LONDON:

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A.D.1856. July 8. N^o1600.
WATKIN'S SPECIFICATION.

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FIG. 1

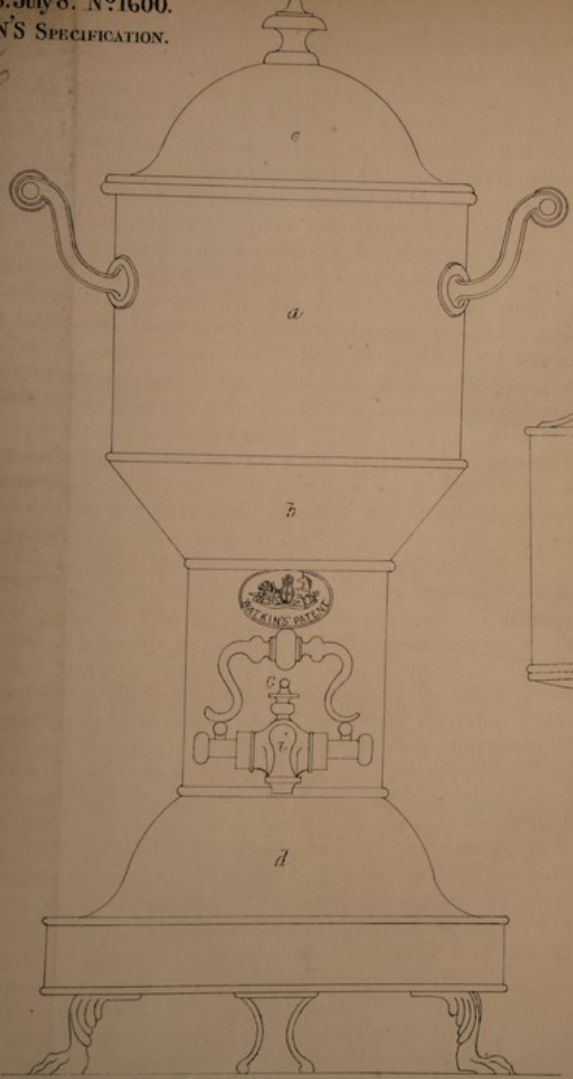


FIG. 3.

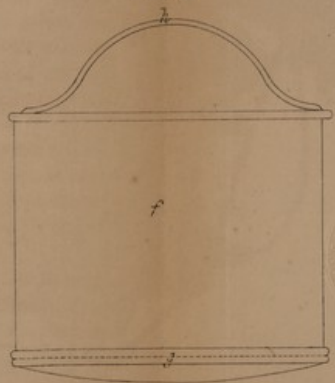
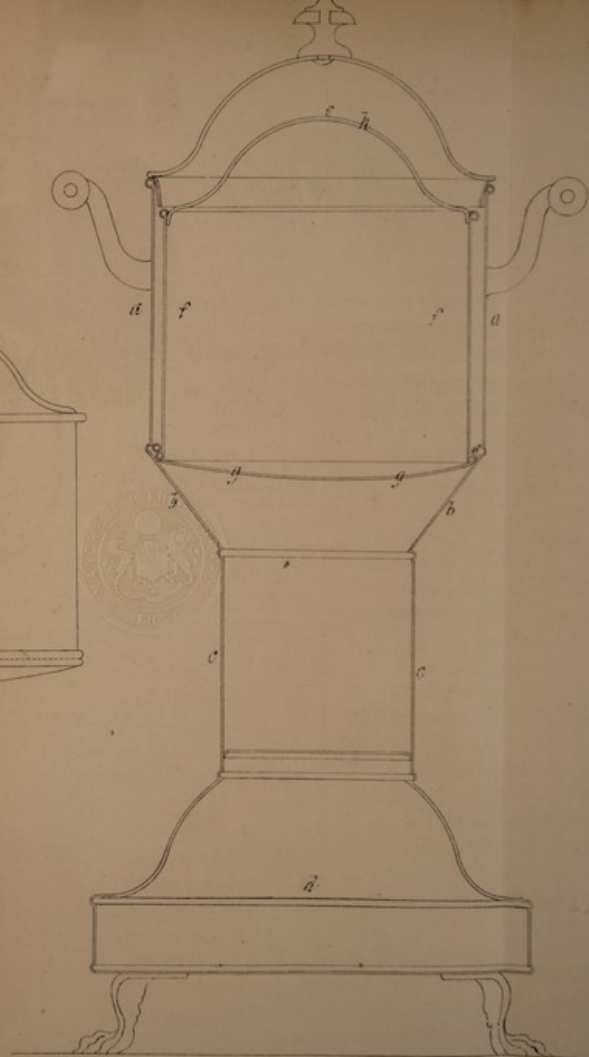


FIG. 2



(1 SHEET)

The filed drawing is colored

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