

Specification of John Aspinall : apparatus for obtaining extracts and decoctions.

Contributors

Aspinall, John.

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A.D. 1856 N° 704.

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

OF

JOHN ASPINALL,

APPARATUS FOR OBTAINING EXTRACTS
AND DECOCTIONS.

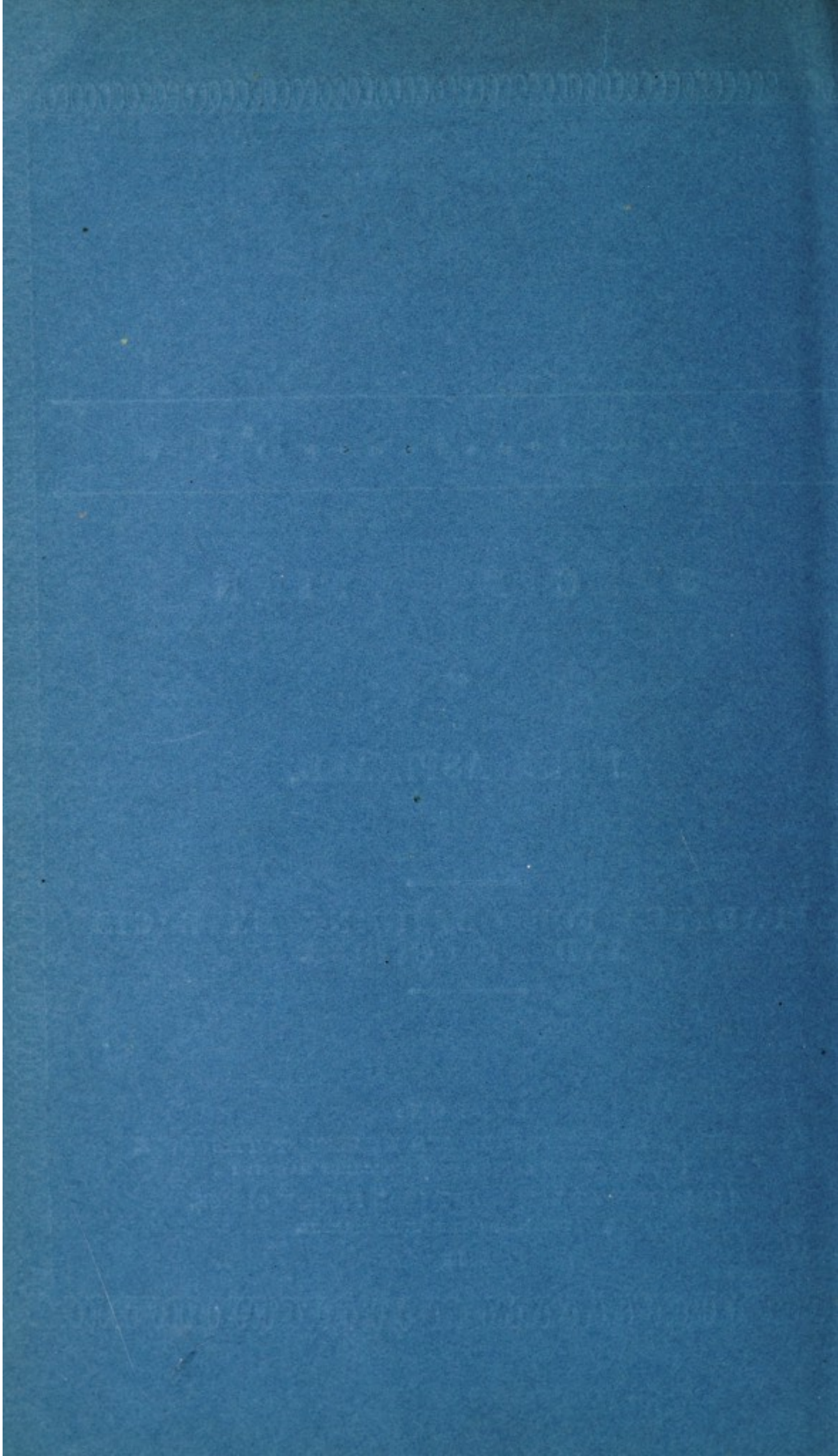
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1856.





A.D. 1856 N° 704.

Apparatus for Obtaining Extracts and Decoctions.

(This Invention did not proceed to the Great Seal.)

PROVISIONAL SPECIFICATION left by John Aspinall at the Office of the Commissioners of Patents, with his Petition, on the 25th March 1856.

I, JOHN ASPINALL, of Limehouse, in the County of Middlesex, Civil
5 Engineer, do hereby declare the nature of the said Invention for "**IMPROVE-
MENTS IN APPARATUS FOR OBTAINING EXTRACTS AND DECOCTIONS,**" to be as
follows:—

My Invention consists in an arrangement of centrifugal apparatus, in which
a liquid is caused to pass through the substance from which the extract is to
10 be obtained, to fall into the body of the vessel, and to be again passed through
and returned as long as the centrifugal action is kept up.

Into the bottom of a vessel suitable for containing liquid I fit a step for the
reception of a shaft, which passes through the top or cover of the vessel, and
is connected by gearing to some source of power for imparting rotary motion
15 thereto; connected to this shaft, by arms or a perforated plate, is a conical
pipe, open at bottom, and provided with vanes on the inside. At the top of this
pipe, and forming a continuation thereto, is a perforated ring, and for some
substances I fit an inner and smaller ring concentric thereto; an annular plate
is placed between the two rings, and forms a bottom, upon which the substances
20 from which the extract is to be made are to rest. This inner ring is not
essential to the perfect working of the apparatus, as the substances may be
placed in porous bags. Outside of the large ring I place, for such powders as

Aspinall's Improvements in Apparatus for Obtaining Extracts and Decoctions.

coffee, a wrapper of linen or other textile fabric, which will act as a filter, and prevent any of the powder passing through it. I place inside the vessel three or more break plates, to prevent the liquid in the body of the vessel being carried round, and impeding the action of the apparatus. Heat may be applied to the bottom of the apparatus. 5

The action is as follows:—Supposing coffee be the substance from which the extract is to be made, hot water is placed in the body of the vessel, and carried by the heat applied under it by a spirit lamp, gas, or otherwise, to the boiling point. Ground coffee is placed between the two perforated rings, and rotary motion is communicated to the shaft, whereby the liquid will be drawn 10 up. The inside of the conical pipe will be forced through the coffee, and will return from the outside of the large ring into the vessel to be again raised and returned as long as the rotary action is maintained.

LONDON:

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Printers to the Queen's most Excellent Majesty. 1856.