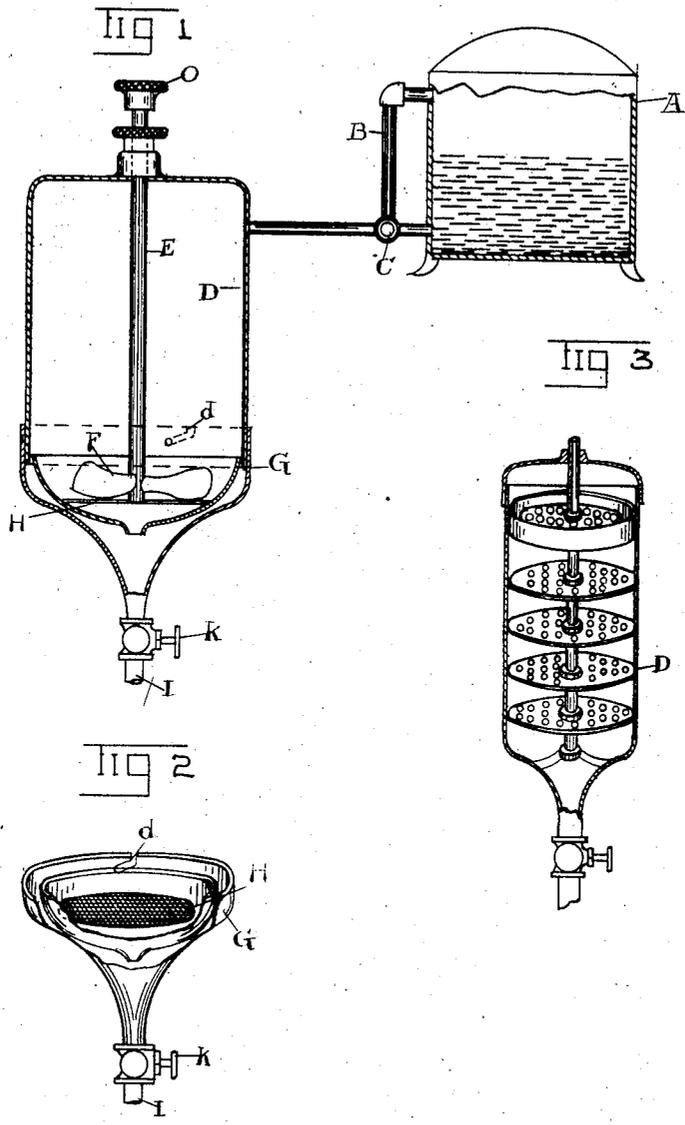


No. 761,828.

PATENTED JUNE 7, 1904.

H. J. P. HAMPTON.
EXTRACTING APPARATUS.
APPLICATION FILED NOV. 14, 1903.

NO MODEL.



WITNESSES.
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UNITED STATES PATENT OFFICE.

HOMER J. P. HAMPTON, OF ALBANY, NEW YORK.

EXTRACTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 761,828, dated June 7, 1904.

Application filed November 14, 1903. Serial No. 181,138. (No model.)

To all whom it may concern:

Be it known that I, HOMER J. P. HAMPTON, a citizen of the United States, residing at Albany, in the county of Albany and State of New York, have invented certain new and useful Improvements in Extracting Apparatus, of which the following is a specification.

My invention relates to means for extracting the soluble properties from coffee, tea, and other substances, and has for its object to produce a thorough and instantaneous extraction of such properties in their highest degree of excellence.

As illustrated in the accompanying drawings, Figure 1 is a vertical transverse section of an apparatus embodying my invention. Fig. 2 is a sectional perspective view of a detachable cup, strainer, and outlet.

As illustrated in the drawings, A represents a steam-boiler having pipe connections B between the upper or steam portion and lower or water portion and a cylinder D. Such pipe connections are provided with a two-way valve C, by means of which either steam or hot water may be allowed to flow into the cylinder D. A cup G is provided with an annular flange adapted to be detachably secured to the lower end of the cylinder D, preferably by means of an inclined slot *d*, adapted to engage a pin on the lower end of said cylinder. A screen or strainer H is arranged within the lower portion of said cup, forming, with the circular wall of the cup, a receptacle adapted to contain the material to be treated. The cup G is also provided on its lower end with an outlet I, having a valve K connected therewith. A stem E extends vertically through the central portion of the cylinder D and is provided on its lower end with blades F of any suitable construction arranged within the cup G and adapted to stir and agitate the material contained therein. The upper end of the stem E is provided with a handle or knob O, by means of which the stem E and the blades F may be rotated. The material to be worked is first placed within the cup G and the cup attached to the lower end of the cyl-

inder D. The valve C may then be turned so as to admit boiling water from the lower portion of the boiler A into the cylinder D, and while the material is subjected to the action of the boiling water the stem E is rotated, so as to thoroughly agitate the material in the cylinder and permit the boiling water to mix freely with such material. The valve C is then reversed, so as to permit the steam from the upper portion of the boiler A to enter the cylinder D. The stem E is then rotated, so that the blades F may agitate the contents of the cylinder and permit the steam to mix with said material and the water in the cylinder. At such time the communication between the water portion of the boiler A and the cylinder is shut off. After such material has been subjected to the action of the steam and hot water while agitated the valve K, connected with the outlet I, is then opened, and the extracted liquid contained in the cylinder D is forced through the screen or sieve H under the pressure of steam in the boiler A and through the outlet I. All the liquid is by such means thoroughly removed from the cylinder D, leaving no drip from the outlet I, and the soluble properties are thereby thoroughly extracted from the material placed within the cylinder.

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

The combination with a steam-boiler, of a cylinder, pipe connections between the steam and water space of said boiler and said cylinder, a cup detachably secured to the lower end of said cylinder, a strainer forming a bottom for said cup, and an agitator arranged within said cup, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOMER J. P. HAMPTON.

Witnesses:

ROBERT W. HARDIE,
MARY P. ADAMS.