

O. SELG.
PERCOLATOR.

APPLICATION FILED SEPT. 27, 1909.

951,290.

Patented Mar. 8, 1910.

Fig. 1.

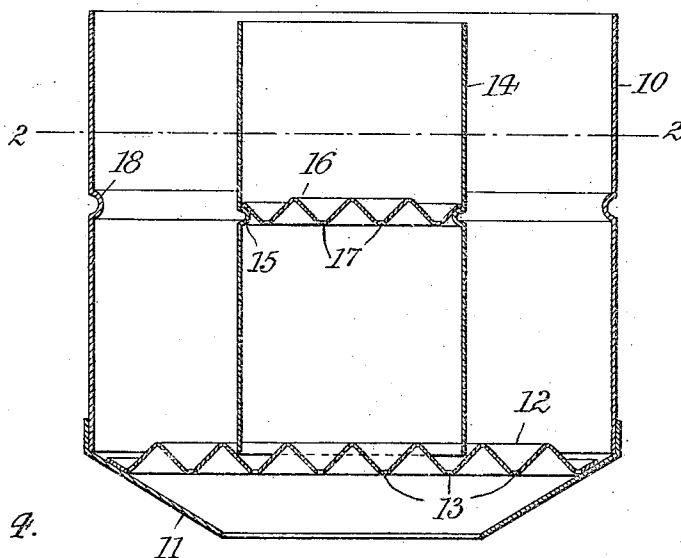


Fig. 4.

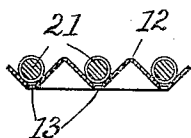


Fig. 5.



Fig. 2.

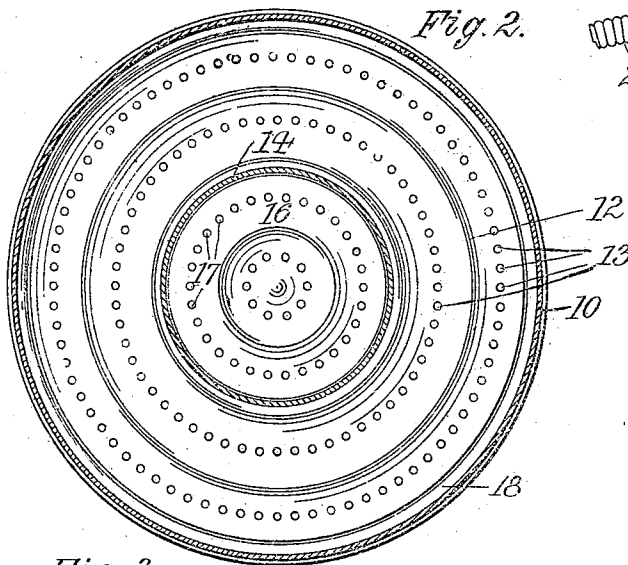
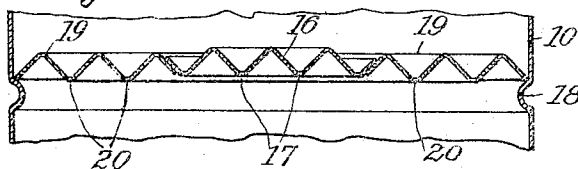


Fig. 3.



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PERCOLATOR.

951,290.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OTTO SELG, a citizen of the United States, residing at New York city, Manhattan, county and State of New York, have invented new and useful Improvements in Percolators, of which the following is a specification.

This invention relates to a percolator more particularly designed for making coffee, though it may also be used for other filtering purposes.

The percolator is of simple construction and effects a thorough and economic extraction of the solvent principle from the solid.

In the accompanying drawing: Figure 1 is a vertical central section of my improved percolator; Fig. 2 a horizontal section on line 2—2, Fig. 1; Fig. 3 a detail of the duplex top plate; Fig. 4 a detail of part of the false bottom, showing the rings, and Fig. 5 a detail of such rings.

A cylindrical receptacle 10 is provided with an open coniform base 11 adapted to be set upon a coffee pot or other vessel.

Above base 11 is supported a corrugated false bottom 12 provided with a series of sloping ridges which are preferably made of circular shape arranged in concentric rows. The concentric annular channels between the ridges are provided at their bottom with a number of discharge apertures 13. Axially through vessel 10 extends a cylindrical shell 14 resting upon false bottom 12. At a suitable distance above such false bottom, shell 14 is beaded as at 15, to form a seat for a circular top plate 16. This top plate is corrugated similar to the false bottom, being provided with a series of annular sloping ridges and intervening furrows perforated at their bottom as at 17. Vessel 10 is also provided with an upper bead or seat 18 adapted for the reception of an annular top plate 19 composed of concentric sloping ridges and intervening furrows having bottom perforations 20. The relative size of plates 16, 19 is such that the former is adapted to overlap the inner edge of the latter and form a complement thereof.

If a large sized percolator is desired, shell 14 is removed, annular plate 19 placed on seat 18, and circular plate 16 placed on plate 19, so as to be supported thereby and close the central opening thereof, (Fig. 3). With

this arrangement the entire capacity of vessel 10 and the entire area of the false bottom are utilized for filtering purposes. If a smaller sized percolator is desired, plate 19 is removed, shell 14 inserted and plate 16 placed on its seat 15, (Fig. 1). With this arrangement the capacity of shell 14 and the inclosed area only of false bottom 12 are utilized.

In practice, the hot water poured into the percolator will flow from opposite directions along the converging walls of the top plate. In this way the streams meeting at an angle at the apertures will prevent the formation of solid jets and cause the liquid to descend dropwise upon the solid supported on false bottom 12. Upon this false bottom the lower stratum of the coffee will become packed within the furrows, so as to here retard the flow of the filtrate and thus insure a thorough extraction of the solvent principle.

In order to provide means for checking the discharge of the filtrate, I provide a series of rings 21, preferably made of wire and adapted to be placed into the furrows of false bottom 12. These rings are grooved transversely as at 22, to form ducts along which the filtrate will flow within the furrows toward the discharge orifices 13. If a slow action is desired, rings 21 are inserted, while when a quicker action is desired, they are removed.

I claim:

1. In a percolator, a vessel, combined with an apertured bottom plate, a shell removably supported within the vessel above said bottom plate, an annular apertured top plate adapted to be supported by the vessel, and a circular apertured top plate adapted to be supported by the shell.

2. A percolator comprising a vessel, an inclosed corrugated bottom plate having perforated furrows, and transversely grooved rings seated within said furrows.

Signed by me at New York city, (Manhattan,) N. Y., this 25th day of September, 1909.

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Witnesses:

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