

N^o 25,570



A. D. 1897

Date of Application, 4th Nov., 1897

Complete Specification Left, 4th Aug., 1898—Accepted, 10th Sept., 1898

PROVISIONAL SPECIFICATION.

Apparatus for Purifying Oily Fluids, and for Separating the Water therefrom.

We, JOSEF SCHASCHL, Engineer of Royal Imperial Navy, and HEINRICH HINTERBERGER, Engineer, both of Pola, Austria, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to an apparatus for purifying oily fluids and for separating the water therefrom, consisting chiefly of a closed cylindrical metal vessel in which perforated bottoms and between the same chloride of calcium and asbestos or glass wool is employed which effect the purification of the oily fluid passing through it and the separation of the water therefrom, the said filtering medium being adapted to be compressed at will by means of an adjustable bottom and screw.

10 The said cylindrical metal vessel is closed by means of a lid, furnished with an inlet and an outlet pipe and a draw-off cock. The said perforated bottom is supported by means of a ring secured to the inside near the bottom of the said vessel, the underside of which bottom is furnished with inclined plates.

15 Above the said perforated bottom another ring is employed adapted to support a second but arched perforated bottom above which a third perforated bottom also arched is arranged connected to the lower end of a screw spindle which is rendered adjustable in the lid of the vessel so that the interior of the latter is divided into three compartments.

20 In the lower compartment is employed a layer of chloride of calcium, in the second a layer of asbestos or glass wool, which can be compressed at will by means of the bottom above.

The apparatus described operates as follows;—

25 The fluid to be treated enters from a reservoir arranged at a higher level through the said inlet pipe the lower compartment and in ascending deposits the coarse impurities on the aforesaid plates, then is freed from water by the chloride of calcium and finally purified by passing through the asbestos or glass wool in the second compartment after which it leaves the vessel through the said outlet pipe.

The impurities accumulating on the bottom of the vessel are drawn off by the aforesaid cock.

30 In smaller apparatus the adjustable bottom may be substituted by a weighted receptacle having a perforated bottom and the said lid by a receptacle containing the fluid to be treated and connected with the lower compartment of the apparatus by a pipe.

Dated this 3rd day of November 1897.

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F. BOSSHARDT & Co.,
Agents to Applicants.

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Apparatus for Purifying Oily Fluids, and for Separating the Water therefrom.

COMPLETE SPECIFICATION.

Apparatus for Purifying Oily Fluids, and for Separating the Water therefrom.

We, JOSEF SCHASCHL, Engineer of Royal Imperial Navy, and HEINRICH HINTERBERGER, Engineer, both of Pola, Austria, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an apparatus for purifying oily fluids and for separating the water therefrom, consisting chiefly of a closed cylindrical metal vessel in which perforated bottoms and between the same chloride of calcium and asbestos or glass wool is employed which effect the purification of the oily fluid passing through it and the separation of the water therefrom, the said filtering medium being adapted to be compressed at will by means of an adjustable bottom and screw. 5

And in order that our invention may be more fully understood we have caused to be appended hereunto one sheet of drawings showing a vertical section of our invention marked with letters of reference. 10

The said cylindrical metal vessel A is closed by means of a lid *a*, furnished with an inlet *b* and an outlet pipe *c* and a draw-off cock *d*. The said perforated bottom *e* is supported by means of a ring *f* secured to the inside near the bottom of the vessel A, the under side of which bottom is furnished with inclined plates *e*¹. 15

Above the perforated bottom *e* another ring *f*¹ is employed adapted to support a second but arched perforated bottom *g* above which a third perforated bottom *h* also arched is arranged connected to the lower end of a screw spindle *h*¹ which is rendered adjustable in the lid *a* or in a cross piece arranged in the vessel A, so that the interior of the latter is divided into three compartments I, II, III. 20

In the lower compartment I is employed a layer of chloride of calcium, in the second II a layer of asbestos or glass wool, which can be compressed at will by means of the bottom *h* above. 25

The apparatus described operates as follows:—

The fluid to be treated enters from a reservoir arranged at a higher level through the inlet pipe *b* the lower compartment I and in ascending in the direction of the arrow deposits the coarse impurities on the plates *e*¹, then is freed from water by the chloride of calcium and finally purified by passing through the asbestos or glass wool in the second compartment II after which it leaves the vessel A through the outlet pipe *c*. 30

The impurities accumulating on the bottom of the vessel A are drawn off by the cock *d*.

In smaller apparatus the adjustable bottom *h* may be substituted by a weighted receptacle having a perforated bottom and the lid *a* by a receptacle containing the fluid to be treated and connected with the lower compartment of the apparatus by a pipe. 35

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:— 40

1st. An apparatus for purifying oily fluids and for separating water therefrom, consisting of a cylindrical metal vessel A having a lid *a* and divided into three compartments I, II, III by two perforated fixed bottoms *e* & *g* and a perforated bottom *h* rendered movable by a screwed spindle *h*¹ and in which vessel the fluid which enters through a pipe *b* from below impinges upon inclined plates which separate the coarse impurities whilst the material contained in the compartments I & II frees same from water, all substantially as set forth. 45

Apparatus for Purifying Oily Fluids, and for Separating the Water therefrom.

2nd. In an apparatus such as specified in Claim 1, the use of chloride of calcium for freeing the said fluid from water and of asbestos or glass wool for purifying it, all substantially as set forth.

3rd. In an apparatus such as specified in Claim 1, the bottom *h* rendered movable 5 by means of the screwed spindle *h*¹ for the purpose of compressing the filtering materials at will, all substantially as set forth.

Dated this 3rd day of August, 1898.

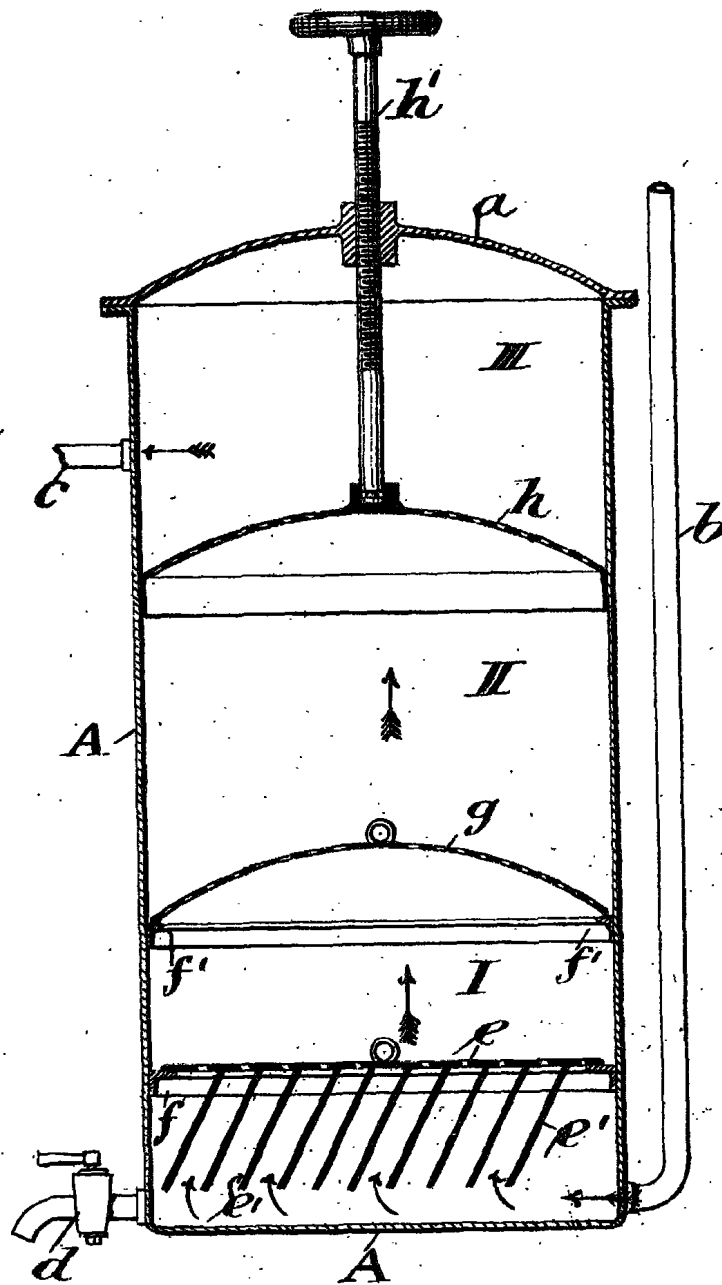
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SCHASCHL & another's COMPLETE SPECIFICATION.

(1 SHEET)



[This Drawing is a full-size reproduction of the Original.]

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