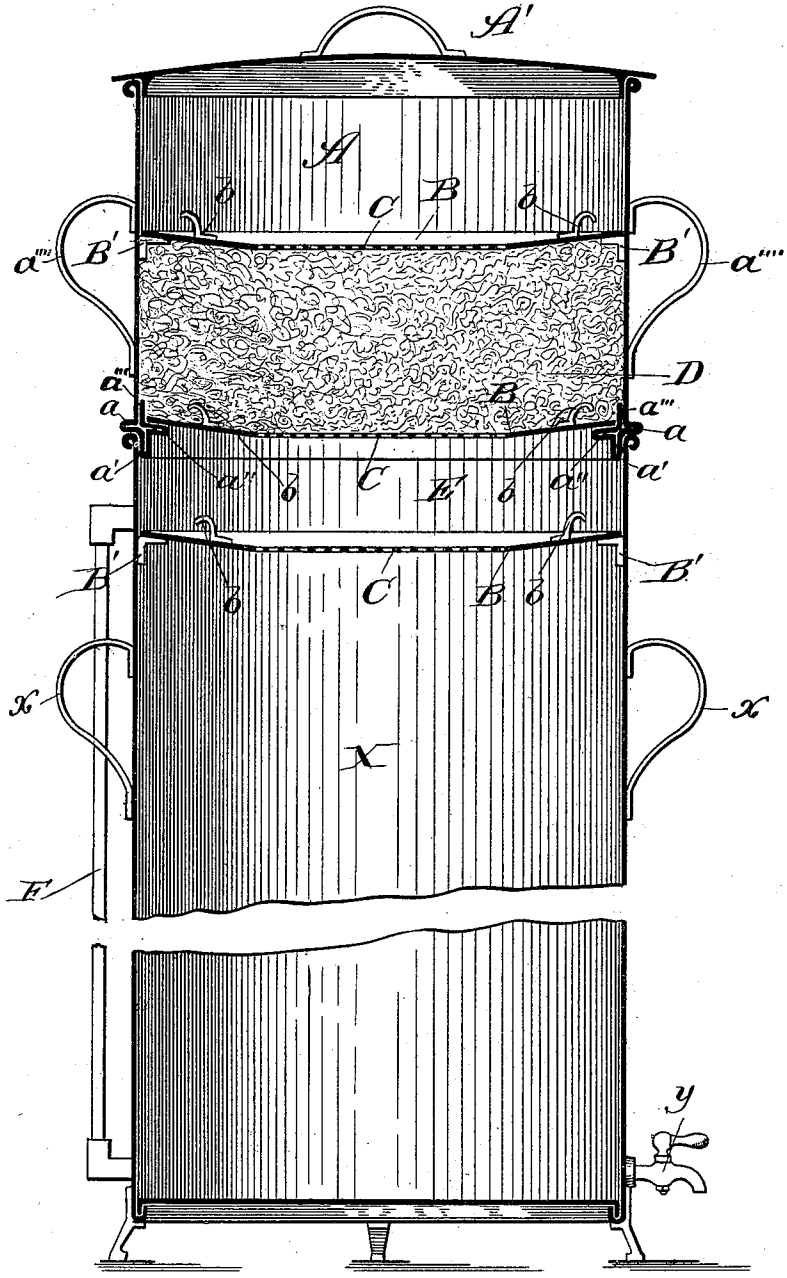
(No Model.)

J. V. BURKE.

FILTERING CAN AND RECEPTACLE.

No. 426,911. Patented Apr. 29, 1890.



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FILTERING CAN AND RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 426,911, dated April 29, 1890.

Application filed October 1, 1888. Serial No. 286,815. (No model.)

To all whom it may concern:

Be it known that I, JAMES V. BURKE, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Filtering Cans and Receptacles, of which the following is a full and complete description.

The purpose of the present invention is to provide a simple, cheap, and durable filtering-receptacle, more especially adapted to receive waste or impure oil from machinery-bearings, &c., and remove therefrom the mechanical impurities—such as particles of metallic grit, filings, and dirt of any kind—leaving the oil in a pure and filtered condition in the bottom reservoir or receptacle, to be drawn off for use as required. I attain such purpose by the construction and arrangement of parts illustrated in the accompanying drawings, which represent a sectional elevation of an apparatus constructed in accordance with my present invention.

As represented in the drawings, my improved apparatus consists of a main lower tank-section or reservoir X, for holding the filtered oil, a superimposed tank-section A, for receiving the unfiltered or waste oil, and a filter arranged within the tank A, and consisting of a body of cotton-waste D or other like porous material inclosed between the perforated top and bottom grids B C, the bottom grid constituting a detachable bottom for the chamber A, the upper perforated grid, that confines the filtering material D in place, being also removable and resting on brackets B′, as shown. With this construction the different filter parts are readily removable by handles *b* in a disconnected condition, so as to admit of easy cleaning of the different parts. A counterpart grid B C is also provided in the lower tank-section X, and the several grids are preferably formed with a flaring imperforate margin and a central sieve portion C, as shown.

The main purpose of the upper grid in the tank-section A is to retain upon the surface thereof iron filings, turnings, and grit when the same are contained in the oil to be filtered, and hence when such oil is free from large particles of dirt or other matter said grid may be omitted, if desired, in the use of my invention.

E is the portion of the lower tank-section above its perforate grid B C.

The tank-sections X and A will be provided with the usual handles *x* and *a''''*, and the tank-section X will be provided with the usual glass gage F, for indicating the height of oil within the same.

The present invention consists more especially in the construction of parts whereby the sections X and A are detachably connected together and the filter supported in position.

In my improved construction the lower edge of the wall of the tank-section A is bent or formed with an outturned annular flattened bead or flange *a*, to fit over the top edge or rim of the tank X and form a support for the tank A, a downwardly-extending flange or rim *a′*, adapted to fit within the open-topped rim or margin of the main tank-section X, to prevent leakage at the joint between the tank-sections, as well as lateral displacement, or the too easy detachment of the two tank-sections X and A, and an inwardly-extending annular flange *a″*, to form an annular ledge within the chamber A for supporting the lower perforate grid of the filter, as shown. These different flanges *a a′ a″* are formed integral with the sides of the tank A.

a‴ is a stiffening-flange that may be used where extra strength of parts is required.

In use the tank-sections X and A may be suitably incased in wood, and it is not essential that the porous filling-body D shall completely fill that portion of the tank A between the upper and lower perforate grids of the same; neither is it necessary that the sieve portion C of the grids B be of the same mesh or degree of fineness.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A filtering can or receptacle comprising an upper and lower tank-section detachably connected together, the upper section A being

formed with an outturned flange a to rest on the top rim of the tank-section X, a downwardly-extending flange a', fitting within the rim of said section, and an inwardly-extending annular flange a'', forming a support for the lower filter-grid B, the different flanges being integral with each other and with the sides of the tank-section A, in combination with a filtering-body confined between perforate grids B, essentially as herein described.

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