

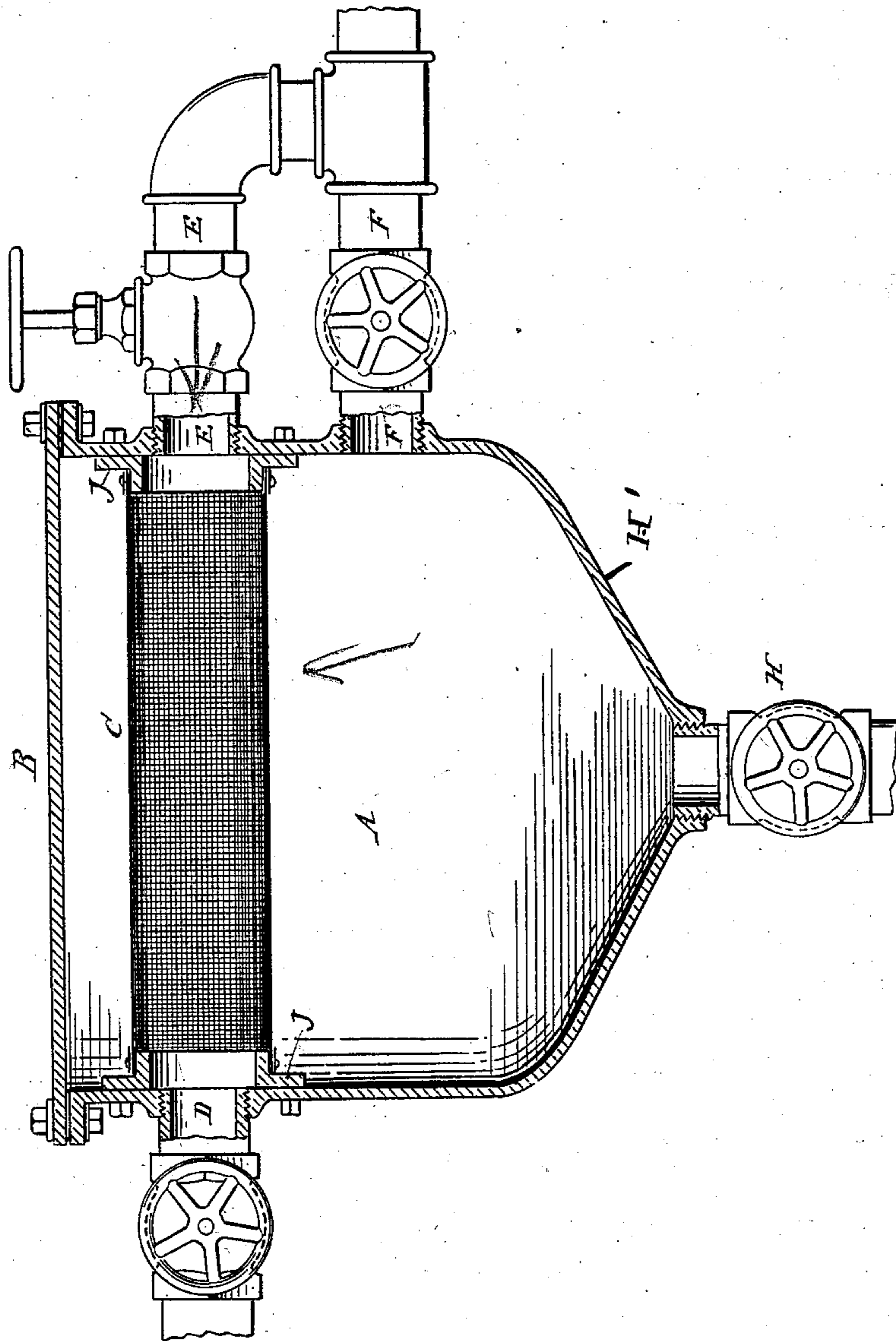
(No Model.)

W. M. BLACKMER.

FILTER.

No. 281,336.

Patented July 17, 1883.



Attest:
A. Parthel
E. Scully.

Inventor:
Walter M. Blackmer
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UNITED STATES PATENT OFFICE.

WALTER M. BLACKMER, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF
TO OSCAR F. COMSTOCK, OF SAME PLACE.

FILTER.

SPECIFICATION forming part of Letters Patent No. 281,336, dated July 17, 1883.

Application filed January 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, WALTER M. BLACKMER, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Filters; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in the construction of water-filters; and the invention consists in the peculiar construction and arrangement of a screening-cylinder within a
15 suitable basin, and provided with suitable pipes, all as more fully hereinafter set forth.

In the accompanying drawing, which shows my invention in vertical section, A represents a suitable water-tight shell or basin, the top
20 of which is closed by the cover B, which is secured to place by suitable bolts, and is preferably formed with sloping bottom H', which is provided with outlet-pipe H at its lowest point. In the upper part of this shell is lo-
25 cated the cylindrical screen C, which is mounted upon the flanged collars J J, that are attached to the shell A by suitable bolts, and are coincident with the holes in the walls of the said case, into which are screwed the exit-pipe D and in-
30 let-pipe E. Below the inlet-pipe E is another pipe, F, which communicates with the interior of the shell and with the pipe E, the pipe F being connected with the source of supply. Each of these pipes is provided with suit-
35 able stop-valves, and a discharge-pipe, H, is arranged in the bottom of the shell.

In practice the valves in the pipes F and D

are opened, while the remaining valves are closed. Water enters through the pipe F into the shell, fills the same, and from thence it
40 passes into and through the cylindrical screen, and finds exit through the pipe D, which distributes the water to the points where it is to be used, the screen preventing the passage of any foreign matter into the pipe D. When
45 the screen becomes fouled by the accumulation of matter upon its exterior, the valves in the pipes F and D are closed and the valves in the pipes E and H are opened. Water now
50 passes directly into the cylinder, thoroughly cleaning the same and carrying the sediment and foreign matter out through the discharge H in the bottom of the shell.

What I claim as my invention is—

1. In a filter, the combination, with the shell
55 A, provided with removable cover B, of the cylindrical screen C, and flanged collars J J, and the pipes D, E, F, and H, provided with suitable stop-valves, constructed, arranged, and operating substantially as set forth. 60

2. In a filter, the shell A, formed with perpendicular sides, and the sloping bottom H', provided with outlet-pipe H, located at the
65 lowest part thereof, and with a removable cover, B, in combination with a filtering-cylinder removably supported by the flanged collars J J, and suitable pipes connected with the said cylinder, the source of supply, and the interior of the shell, substantially as set forth.

WALTER M. BLACKMER.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.