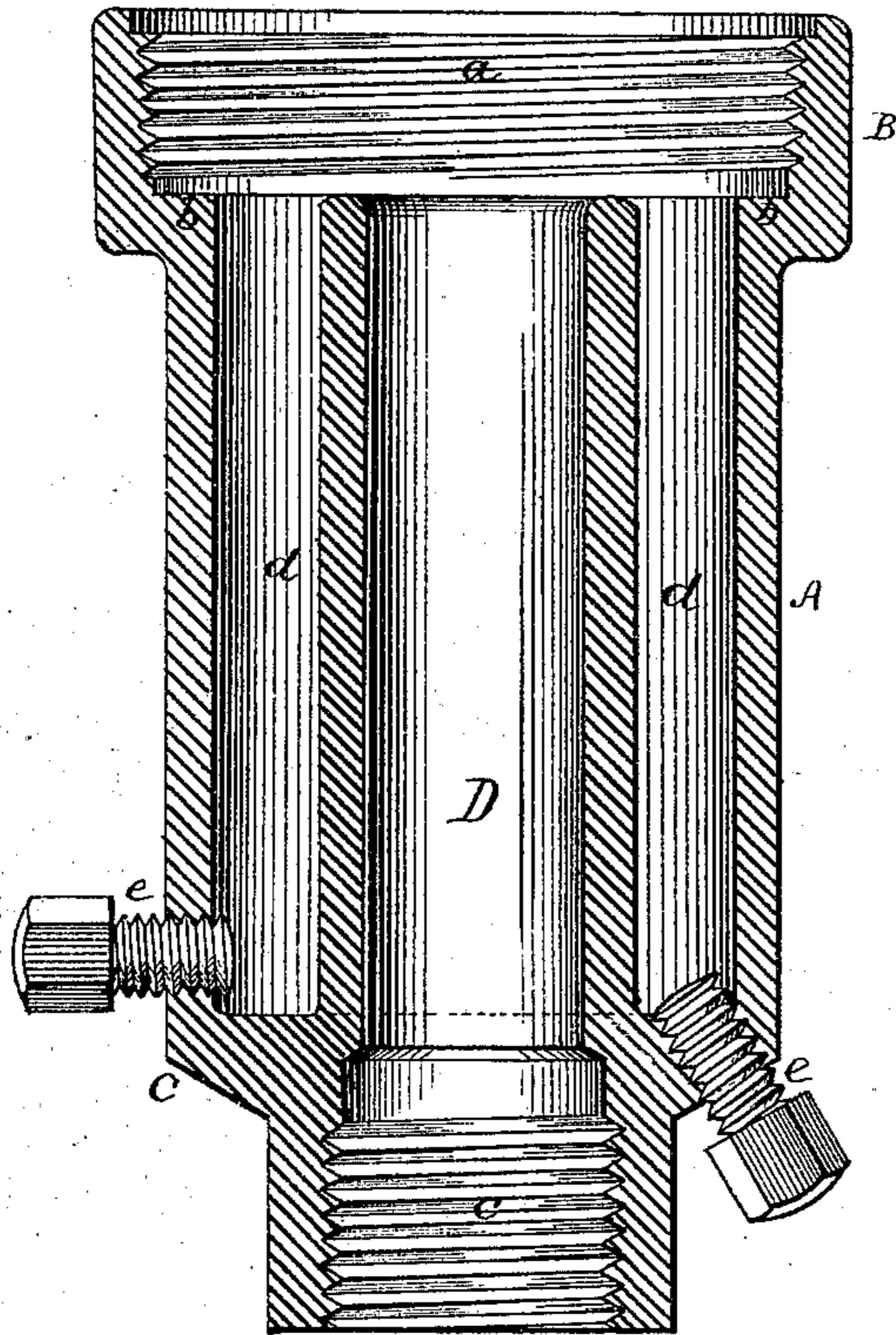


J. H. CROCKER.

Pumps.

No. 149,841.

Patented April 21, 1874.



Witnesses.

W. L. Perrine

A. C. Bradley

Inventor.

Jas. H. Crocker

Per.

W. H. Finckel

Atty.

UNITED STATES PATENT OFFICE.

JAMES H. CROCKER, OF WELLSVILLE, NEW YORK, ASSIGNOR OF ONE-HALF
HIS RIGHT TO LAROCY S. ANDERSON, OF SAME PLACE.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **149,841**, dated April 21, 1874; application filed
September 24, 1873.

To all whom it may concern:

Be it known that I, JAMES H. CROCKER, of Wellsville, in the county of Allegany and State of New York, have invented certain Improvements in Pumps, of which the following is a specification:

This invention relates to a coupling for securing the working barrel of a pump and its pipes together, which is constructed with a chamber underneath the check-valve, for holding any sand brought up with the water, suitable outlets being made in said chamber for removing the accumulations.

The drawing shows the invention in central longitudinal section.

A represents the outer casing of the coupling, with its upper end B enlarged or made flaring, and having a screw-thread, *a*, cut therein, for securing it to the working barrel of the pump, and a shoulder, *b*, at the lower end of said thread. The lower end C of the casing is contracted into a neck, *c*, in which a thread is cut to receive the pipes extending into the water. D is a tube extending from the neck to the screw-thread *a*, centrally through the coupling-casing, and of about one-half its diameter, so as to leave a space, *d*, all around it. This space constitutes the sand-chamber, and at or near its bottom one outlet or more, with a screw-stopper, *e*, is provided,

so that the sand may be removed as it accumulates.

The check-valve may be of ordinary construction, and its rim rests on the shoulder *b*, with the valve proper covering the end of the tube D, so that as the water is elevated the sand, &c., in it is deflected into the chamber *d*. The valve is held in place by the working barrel when the coupling is screwed into place.

The casing A and tube D are cast in one piece—that is, together—preferably, and the threads, stoppers, and valve afterward added.

Any suitable device other than a screw-stopper may be used to close the outlets.

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

A coupling or connection for the working barrel and pipes of a pump, constructed with an outer shell or casing and an internal tube, cast in one piece, between which shell and tube a sand or sediment chamber is formed, substantially as described.

To the above specification of my invention I have signed my name this 8th day of September, A. D. 1873.

JAMES H. CROCKER.

Witnesses:

GEORGE HOWE,
BENTON C. RUDE.