

(No Model.)

C. G. JAYCOX.
STRAINER FOR PUMPS.

No. 442,052.

Patented Dec. 2, 1890.

Fig. 1.

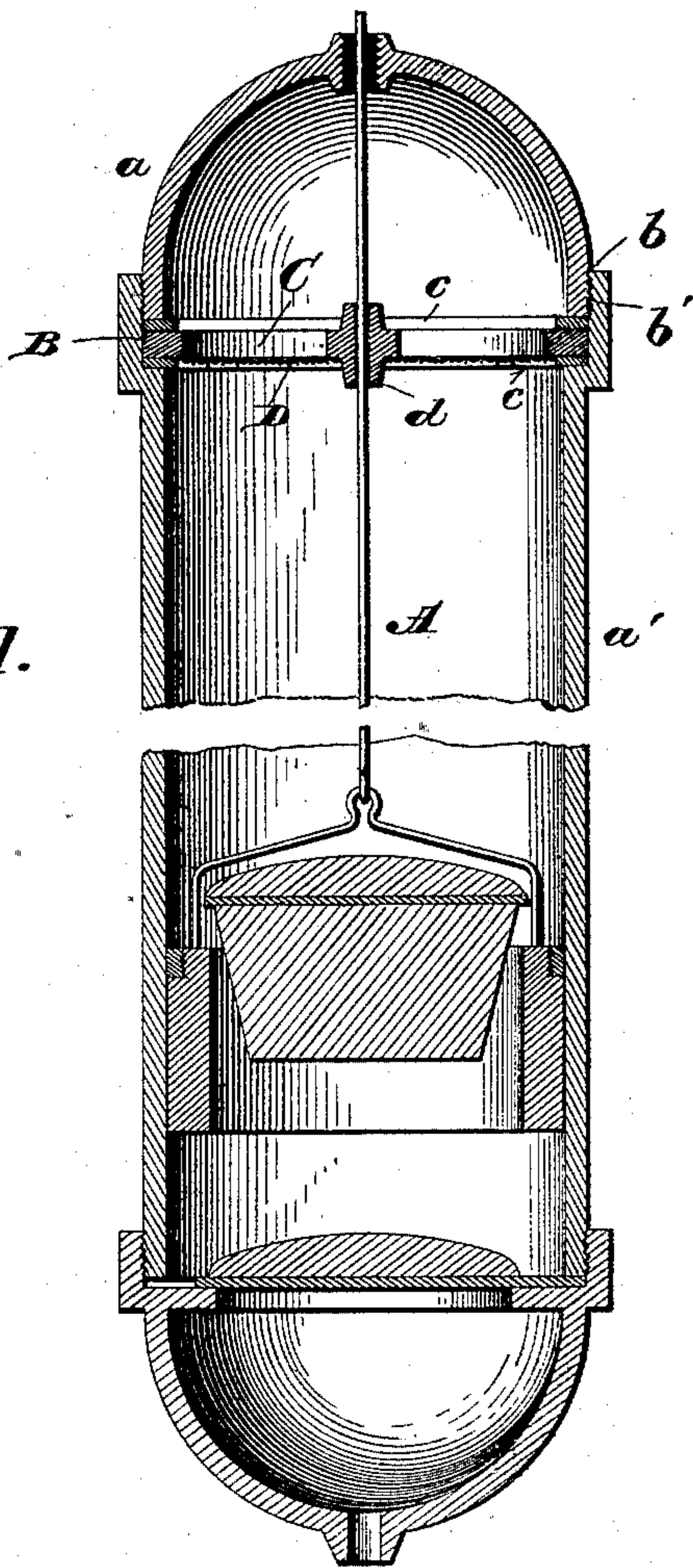
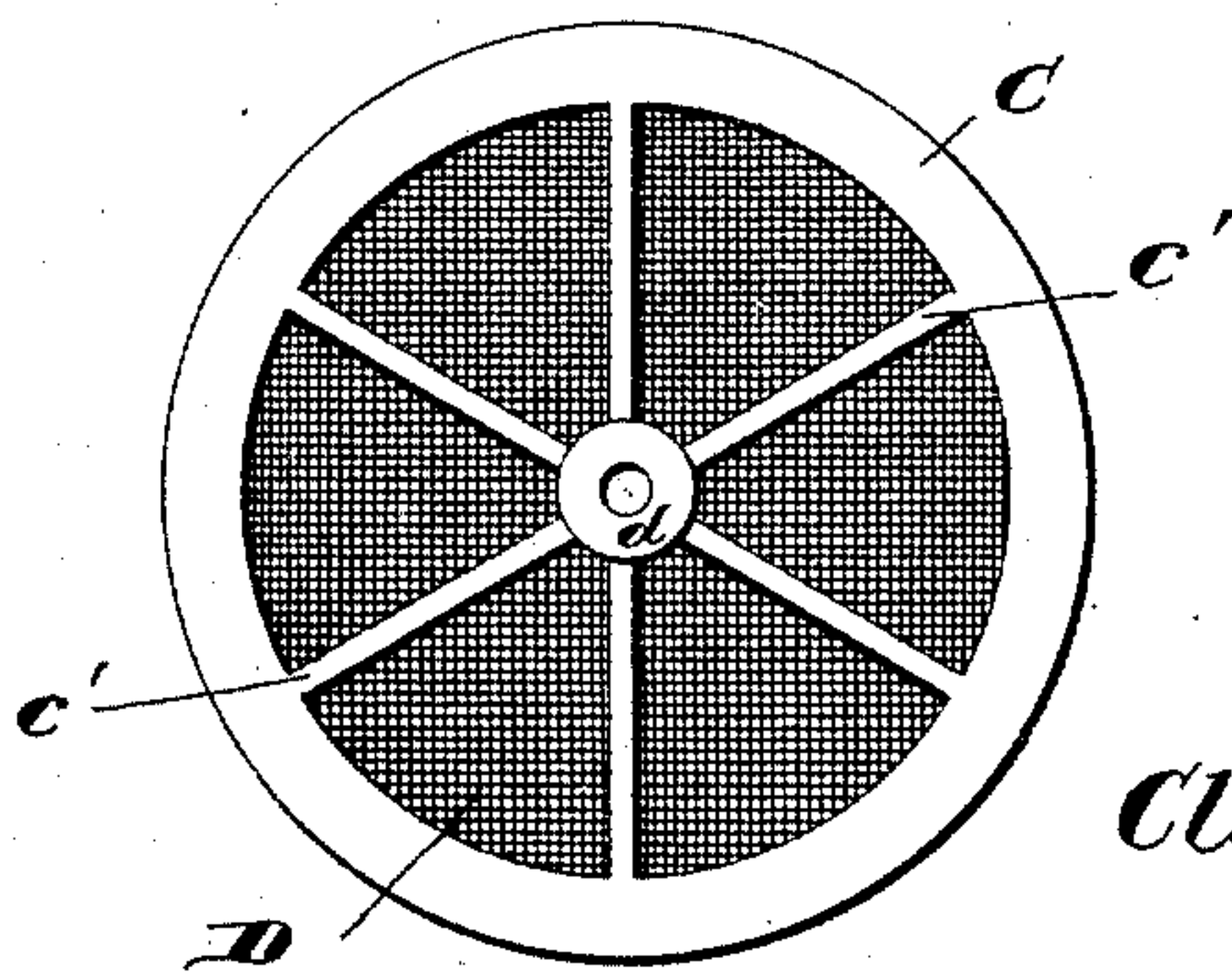


Fig. 2.



Clarence G. Jaycox.
Inventor

Witnesses

L. S. Elliott
W. Johnson

by

[Signature]
Attorney

UNITED STATES PATENT OFFICE.

CLARENCE G. JAYCOX, OF ALBION, NEBRASKA.

STRAINER FOR PUMPS.

SPECIFICATION forming part of Letters Patent No. 442,052, dated December 2, 1890.

Application filed September 11, 1890. Serial No. 364,683. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE G. JAYCOX, a citizen of the United States of America, residing at Albion, in the county of Boone and State of Nebraska, have invented certain new and useful Improvements in Strainers for Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in strainers for pumps.

The object of the invention is to provide a cheap, simple, and effective means for keeping chips, dirt, and foreign substances from passing down the pipe of the pump, where they would interfere with the operation of the piston and valves, said strainer being so constructed that the piston-rod will pass through the frame supporting the strainer and will be guided thereby.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section of a portion of a pump-tube, showing my invention applied thereto; and Fig. 2 is a detail plan view of the strainer detached.

This invention is intended more particularly for use in connection with that class of lift-pumps which have an enlarged cylinder and are connected to a tube or pipe extending to the surface of the ground, through which the piston-rod passes. The strainer is preferably held within a two-part casting attached to the tube, though in practice it may be attached to the cylinder.

A refers to a casting, which is made up of the parts *a* and *a'*, which are provided with male and female threads *b* and *b'*, the parts at their juncture forming a recess *B* with upper and lower shoulders, against which washers *c c* abut, a casting *C* resting between said washers, said casting having radial arms *c'* and a central hub *d*, through which passes the piston-rod. To the under side of this casting and radial arms is secured a disk *D*, of foraminous material or wire-gauze, which

can be soldered to the outer ring and to the radial arms. The upper and lower ends of the casting have openings, which are internally threaded for attachment thereto of the pump-tube. The upper casting *a* is secured directly to the pump-cylinder above the piston and valves thereof.

The strainer or wire-gauze being attached to the under side of the casting *C*, the arms thereof will receive and hold any material which would be of such a weight as to puncture the gauze, and in order that the water may pass freely through the wire gauze or strainer the casting *A* is made of much larger diameter than the pump-tube proper, the transverse dimensions of the casting corresponding with the pump-cylinder. The piston-rod, passing through the center of the casting *C*, is guided and cannot contact with the strainer.

I am aware that prior to my invention pumps have been provided with strainers located above the valve-operating mechanism, said strainers being either loose in the pump-tube or carried by the piston-rod, and I therefore do not claim, broadly, a strainer located above the piston and valve-operating mechanism; but

What I do claim as new, and desire to secure by Letters Patent, is—

1. In combination with a pump-tube, a two-part casting attached to said pump-tube and retaining in place a casting *C*, having radial arms, and a central hub through which the piston-rod passes, a strainer being attached to the under side of said radial arms, substantially as set forth.

2. In combination with a lift-pump having a reciprocating piston-rod, a two-part casting, as described, and a strainer *C*, and held within said casting and provided with a central opening through which the piston-rod passes, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CLARENCE G. JAYCOX.

Witnesses:

D. V. BLATTER,
W. BAKER.