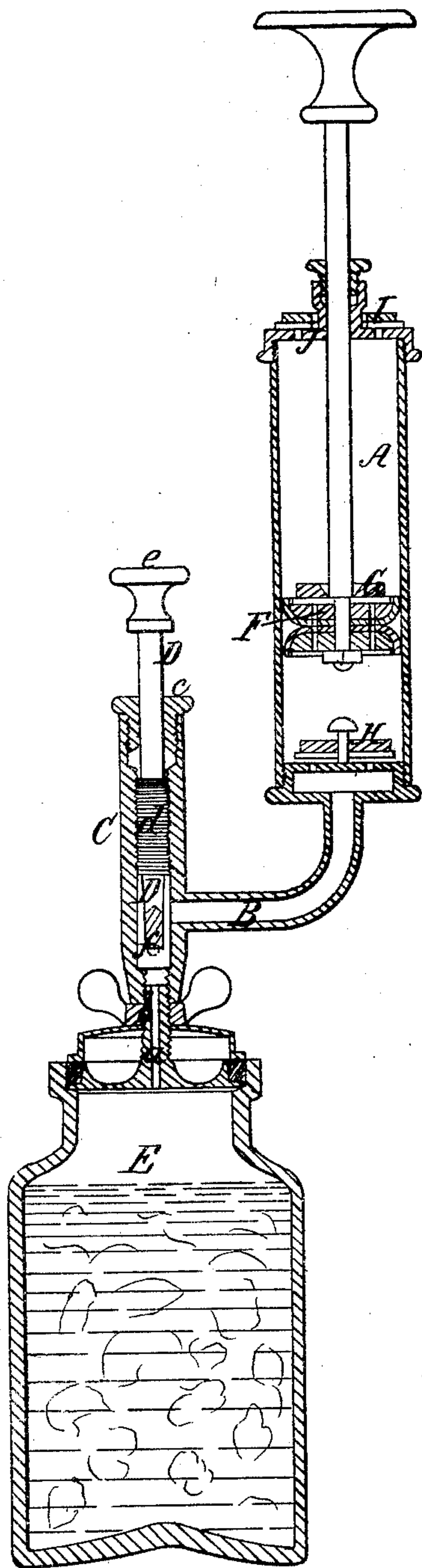


H. Y. WILDEY.
SEALING ATTACHMENT FOR AIR PUMPS.

No. 30,440.

Patented Oct. 16, 1860.



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UNITED STATES PATENT OFFICE.

HENRY Y. WILDEY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN APPARATUS FOR SEALING CANS.

Specification forming part of Letters Patent No. 30,440, dated October 16, 1860.

To all whom it may concern:

Be it known that I, HENRY Y. WILDEY, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful sealing attachment to air-pumps for exhausting preserve-vessels and other vessels in which a vacuum is desired; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing a central section of an air-pump with my attachment, and illustrating its application to a preserve-jar.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

A represents the barrel of the air-pump.

B is the suction-pipe, bent at a right angle to the barrel, and having attached to its extremity the straight socket C, which occupies a position parallel with the barrel, at such a distance therefrom as to afford convenience of working the sealing-plunger D. The said socket C extends some distance above and below the end of the suction-pipe, and its lower end is made of such form as to fit the exhaust-aperture *a* of the vessel E, which is to be exhausted. In the example represented the socket is made with a female screw in its interior to screw tightly onto a male screw on the exterior of a nipple, *b*, through which the exhaust-aperture is made, such nipple being formed upon the stopper or cover of the vessel. The sealing-plunger has its upper part made cylindrical to fit a stuffing-box, *c*, that is provided at the upper end of the socket C, and it has on its exterior below such cylindrical portion a screw-thread, *d*, to fit a female screw-thread in the socket C, and has a knob, *e*, at the top to constitute a handle by which to turn it to screw it up or down.

Instead of having the screw-thread *d* to fit the corresponding female screw-thread in the socket, the plunger may have a lever applied

to its upper end to work it. The lower part of the plunger is made smaller than the lower part of the interior of the socket to leave room for the passage of air around it to the suction-pipe B.

F is the piston of the air-pump fitted with a valve, G.

H is the inlet-valve, applied at the connection of the suction-pipe, and I is the delivery-valve fitted to the head J.

The mode of using the pump is as follows: The plunger D is first screwed or forced down in the socket C far enough to present its lower end through the bottom of the said socket, and the necessary quantity of wax is applied in the form of a pellet to fill and project from the cavity *f*. The said plunger is then screwed or drawn up again far enough within the socket C to permit the latter to be screwed on to the nipple *b*, or otherwise suitably applied to the aperture *a* with a suitable space between the sealing material and the mouth of the said aperture, and all is ready for exhaustion by working the pump-plunger F. When all the air has been exhausted, and while the pump still remains attached to the vessel by the socket C, the sealing-plunger D is screwed or otherwise moved down in the socket to press the wax upon the mouth of the aperture *a*. The socket is then removed from the nipple or aperture to detach the pump, leaving the aperture sealed.

What I claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the socket C and screw-plunger D with the nipple *b* and air-pump A, as herein shown and described, so that when the air has been exhausted from the can by the pump, the plunger D may be screwed down and cause the wax plug to seal the aperture *a*, all as herein set forth and described.

HENRY Y. WILDEY.

Witnesses:

JOHN CLOUDS,
ROBERT CLOUDS.