8274X

J. P. Stabler,

Breast Pump.

Patented June 19, 1834.

Fig: 3.



Fig: 1.

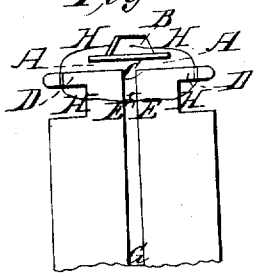
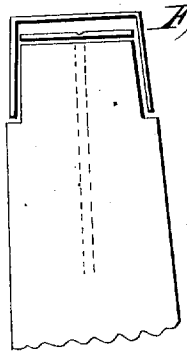


Fig: 2.

Fig: 4.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

June 19, 1834

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James P. Stabler of Sandy Spring, Maryland,

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said James P. Stabler himself of his improvement in the construction of a Machine for extracting milk from the breasts of women called a Pneumatic breast-pump.

To all to whom these presents shall come

Be it known that I James P. Stabler of Sandy Spring in the County of Montgomery and State of Maryland, have invented a new and useful improvement in the construction of a Machine for extracting or drawing milk from the breasts of women, and that the following is a full and exact description of the construction and operation of the said Machine as invented or improved by me, to wit. In the plate of drawings fig 3, E represents a vessel of glass or other suitable substance, having attached thereto a neck A. A, with a trumpet mouth or flanche. B. B, of a shape and size, corresponding nearly to the form and size of the nipple and to that part of the female breast including and contiguous to the areola. On the top and side of the vessel is another short neck D. P. made for the purpose of attaching to the vessel the apparatus for exausting the vessel of air, when the Machine is used, which neck is left open in the construction of the vessel. F, F, represents a cap of metal or other suitable material resembling the cover for the object glass of a common telescope. the top part of this cap is perforated with a small hole at P. and with a larger hole above the letter F, this cap is fastened to the vessel with cement. E G. is a small tube of metal fastened to the cap at E with a small opening through its centre at G longitudinally of the

piece. This tube is seen enlarged in fig 1st. D,D, is a tube of metal or other substance, fitting over the tube F.C. air tight. To the upper end of this tube a gum elastic pipe for tube K,K, is attached [view J] terminating in a mouth piece I, of bone, ivory, or other substance having a hole through it at H, J. is a small valve formed by a string to the upper end of the tube F,C, (seen enlarged in fig 2, in perspective) it is composed of a circular plate of Metal B fig 2. to which is attached another thin piece of Metal A at right angles, and nearly central with the piece B. It has a small hole at A, through which a string passes to confine it to its place. Fig 1. represents the tube F,C, and the valve J. of figure 3. —— at G. C. fig 1st. is a small hole closed by the valve B, when it falls upon the smooth surface A. C. A. the upper surface A. A. of the tube and the lower surface of the valve are ground so as to fit closely, H,H,H,H, is a string which passes through the hole B of the valve and through two small holes D,D, of the tube and tied round the neck H,H, at E,E. of the tube the elasticity of this string suffers the valve to open and close when in use

Method of using

The mouthpiece A. A. B. B. fig 3, being placed directly over the nipple N. (a portion of the breast being represented by the dotted lines N. N. N.) and pressed gently towards the breast, the operator applies her mouth to the part L, (covering the hole M) at the same time covering the small hole E. of the cap H,H, with the thumb or finger of the hand, with which she holds the instrument to the breast, upon sucking or drawing at the mouth piece I the portion of air contained within the vessel E, is drawn through the orifice F. of the tube F,C. opens the valve J. and passing through the pipe K,K, reaches the mouth of the operator, As soon as the operator ceases to draw the the valve J. falls down and prevents the admission of the external air within the vessel. This

operation is repeated until a sufficient vacuum is formed within the vessel, to cause the milk to flow, the valve closing at each time, preserving the vacuum then formed, The perforation of the cap at G, is intended to admit the external air to the vessel when the drawing power of the instrument is too great for the patient to bear, and to remove it without pain from the breast This is effected by raising the thumb, or finger, which cover the small orifice G.

The improvement claimed under this specification, are the application of a valve to the Pneumatic breast pumps, in which the vacuum is formed by the mouth of the operator,

The form and position of the valve, may be changed at pleasure, and also the material of which it is composed, only one mode of its application has been described, and only one form used in the operating machine deposited herewith in the Patent Office, The valve of whatever shape or form when applied, to a Machine for drawing the female breast where the mouth of the operator is used for forcing the vacuum, is therefore claimed, by which the instrument having been exausted to the desired extent, may be kept upon the breast without the constant exertion of the mouth, of the operator, 2nd, The perforation of the cap or vessel by which means the external air may be admitted to diminish the drawing power of the instrument, when painful to the Patient, and by which the operation may be immediately suspended without inconvenience,

Witnesses
Robt Clarke
William Ballou

Percy P. Stabler

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