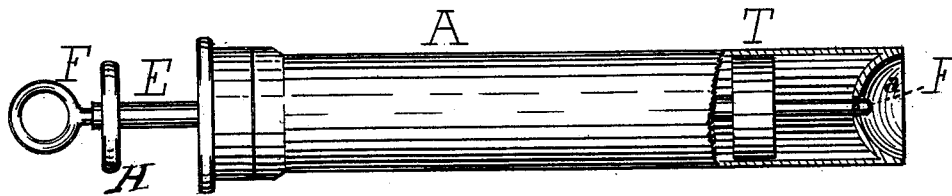


A. L. PALMER.
Combined Aspirator, Concealed Uterine Cauterizer,
and Vaginal Syringe.

No. 213,588.

Patented Mar. 25, 1879.



Witnesses

Wm. L. Williams
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Inventor

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UNITED STATES PATENT OFFICE.

ANNA L. PALMER, OF CHARITON, IOWA.

IMPROVEMENT IN COMBINED ASPIRATOR, CONCEALED UTERINE CAUTERIZER, AND VAGINAL SYRINGE.

Specification forming part of Letters Patent No. **213,588**, dated March 25, 1879; application filed December 10, 1877.

To all whom it may concern:

Be it known that I, ANNA L. PALMER, of Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Combined Aspirator, Concealed Uterine Cauterizer, and Vaginal Syringe, which improvement is fully set forth in the following specification and accompanying drawing, in which the figure is a side view of the uterine syringe, with a portion cut away to fully illustrate the several parts of the improvement.

The object of my invention is the cure of affections of the uterus; and the operations are twofold: first, to extract from the uterus unhealthy accumulations by producing a partial vacuum in the instrument; second, to apply medicine to the os uteri, the syringe or extractor serving as a director to the probe, which is tipped with sponge or other suitable material saturated with medicine.

The instrument is constructed of vulcanized rubber or metal, and is like the usual form of vaginal syringe, with these exceptions: The piston-rod has an orifice through its entire length for the reception of a probe or director, at the end of which a sponge saturated with medicine or stick or crystallized caustic may be secured. The inner end of the instrument is concaved, forming a cup to embrace the os uteri, and to hold the caustic away from the walls of the vagina.

It will be observed that my instrument serves a treble purpose—*i. e.*, it acts as an aspirator to relieve the uterus of unhealthy matter consequent upon temporary stoppage from colds, &c., as a means for applying medicine to the mouth and neck of the uterus, and as a vaginal syringe; and it can be readily and quickly changed from one to the other. To effect this ready change, I construct the piston-rod of vulcanized rubber and form it hollow to receive the probe-rod.

When used as a uterine cautery the probe-rod will be pushed in to its farthest extent; but sufficient withdrawing-space should be allowed to retain the medicinal preparation concealed within the cup.

When used as an aspirator the probe-rod is to be withdrawn, so as to fill the orifice in the mouth of the syringe, but not to extend far enough to injure the parts with which the cup comes in contact.

When used as a syringe the probe-rod is withdrawn, so as to leave the mouth-orifice open when the piston has completed its stroke.

Referring to the drawing, A represents the barrel, the outer end having a cap, which screws on to close the end, and the inner end terminates in a concavity, *a*, having an orifice, through which matter is received into the instrument, through which the probe is passed, and through which the enema is forced.

E represents the piston-rod, which is hollow throughout its entire length, and to its inner end is attached the piston T. The director or probe-rod F passes through the piston-rod, and is notched or perforated to allow securement of a sponge, &c., upon its inner extremity.

When the instrument is used to extract morbid accumulation from the uterus, it is introduced into the vagina until the cup *a* embraces the os uteri. The piston is carefully withdrawn, which produces a partial vacuum in the barrel, to be filled by this morbid accumulation, when the instrument is withdrawn and discharged.

When using the probe as a cauterizer, the instrument serves simply to direct the probe and prevent the medicinal preparation from coming in contact with the walls of the vagina.

I claim—

The combined aspirator, syringe, and cauterizer described, consisting of the barrel A, having cup *a*, the piston E T, the nut H, and probe-rod F, as and for the purpose set forth.

ANNA L. PALMER.

Witnesses:

JAMES POTTS,
S. H. WATERS.