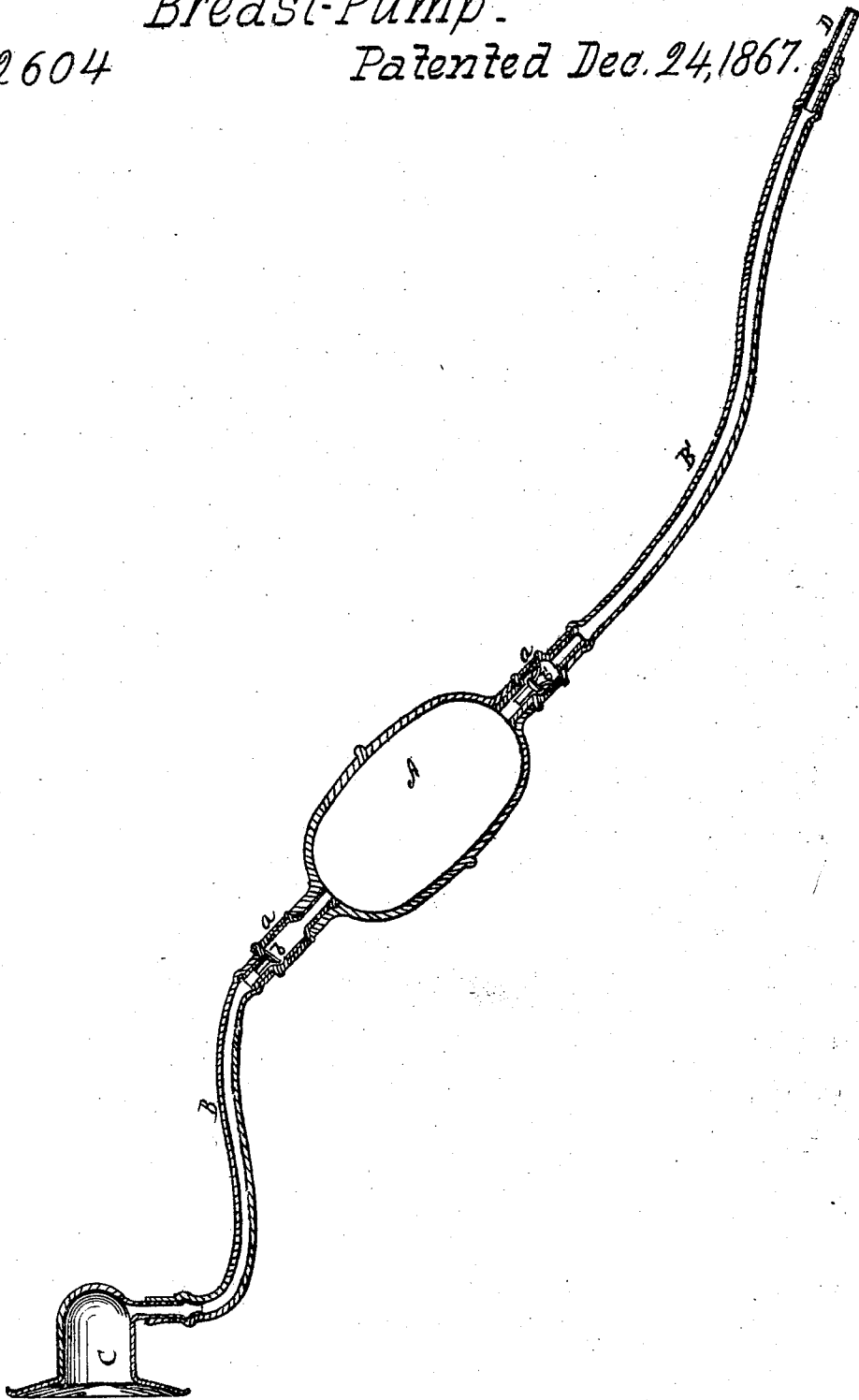


J. Cole

Breast-Pump.

N^o 72604

Patented Dec. 24, 1867.



Witnesses

McComby
G. W. Reed

Inventor

James Cole

United States Patent Office.

JAMES COLE, OF BROOKLYN, NEW YORK.

Letters Patent No. 72,604, dated December 24, 1867.

IMPROVEMENT IN BREAST-PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES COLE, of Brooklyn, in the county of Kings, and State of New York, have invented a new and useful Improvement in Breast-Pumps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and which represents a longitudinal sectional view of a breast-pump constructed according to my improvement.

The nature of my invention consists in a combination of an elastic sack or bulb with induction and eduction-valves, and flexible pipes or tubes branching therefrom in opposite directions, and provided, the one branch with a breast-cup and the other branch with a discharging-nozzle.

Referring to the accompanying drawing, A represents a rubber sack or bulb, made of any suitable shape to admit of its being conveniently grasped and worked by the hand. B B' are flexible tubular connections therefrom, fitted preferably at their junction by screw-couplings *a a*, with the bulb, or the latter at its ends, with an induction and eduction-valve, *b b'*. The one of these tubes, B, terminates in a breast-cup, C, made of glass, metal, or other suitable material, other than soft or flexible, and shaped to cover the nipple of the breast, while the other tube, B', terminates in a glass, metal, or other suitable nozzle, D, to conveniently direct the discharge into a cup or receiving-vessel.

The operation of the instrument is as follows: The breast-cup C being stiff or inflexible, is firmly held over the nipple of the breast, with a gentle pressure, sufficiently hard to prevent air from entering the cup. The bulb A with the other hand is then alternately compressed and relaxed, which action produces a suction or exhausting effect, causing the milk to flow, and when sufficiently continued, to be discharged through the nozzle D into the cup or vessel in which said nozzle rests.

A pump thus constructed, approximates in its operation the natural action of a child in sucking, has no injurious spasmodic effect, and does not produce an unsightly elongation or inflammation of the nipple, causing strangulation of the milk-veins. It can be self-applied, and with the nicest regulation as regards force, according to the condition of the breast, and with but little effort, for if, necessary, a lengthened period of time. In these or other respects, it importantly differs from many or most breast-pumps, and though having certain features in common with some and with certain enema-syringes, its functions or appendages are different, and as an entirety is as new as it is useful.

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

A breast-pump, constructed substantially as described.

JAMES COLE.

Witnesses:

A. LE CLERC,

J. W. COOMBS.