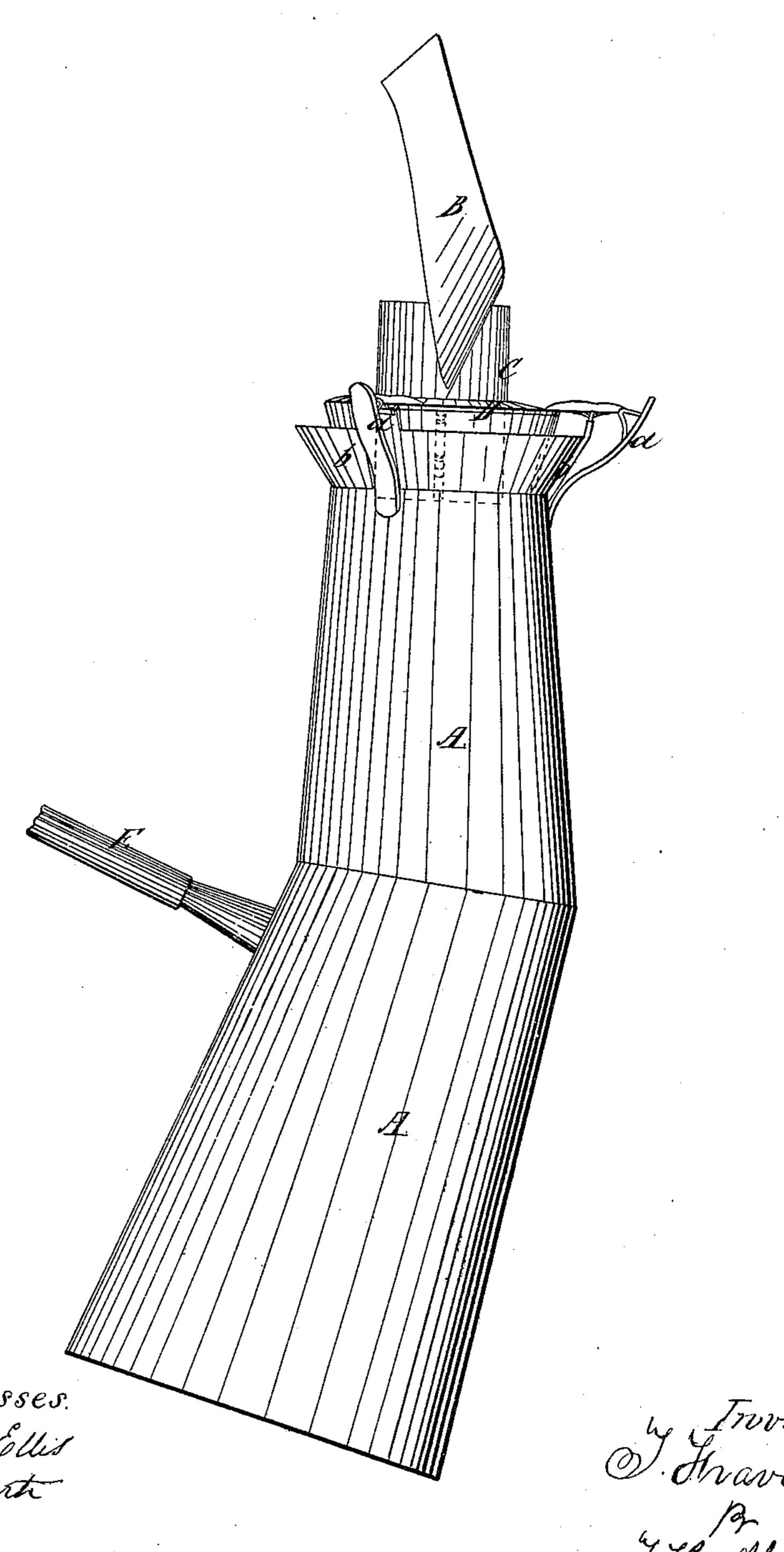


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Paten 1869.



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THEOPHILUS FRAVEL, OF WESTVILLE, INDIANA.

Letters Patent No. 89,648, dated May 4, 1869.

IMPROVED APPARATUS FOR TREATING DISEASES BY VACUUM.

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, Theophilus Fravel, of Westville, in the county of La Porte, and State of Indiana, have invented certain new and useful Improvements in Apparatus for the Treatment of Disease by Vacuum; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which is represented a side view of my instrument for curing diseases by vacuum.

The nature of my invention consists in the employment of a case, made of any suitable material, for the reception of the parts to be treated, and in providing the said case, at its upper end, with rubber cap and band, so that the case may fit air-tight around the limb or joint, to be treated in combination with such other devices, the peculiarity of which will be hereinafter fully set forth.

To enable others skilled in the art to which my invention appertains, to make and use the same, I will now describe its construction and operation.

In the accompanying drawing—

A represent a case, made of any suitable material, size, and shape, to be placed around the limb or joint to be treated.

O is a rubber cap, which is first passed up upon the limb to the point desired, fitting loosely around the same, and being made air-tight by means of the rubber strap or band B, one end of which is secured to the cap C, and the other end wound tight around the

limb, half overlapping the perpendicular band of the cup, and half being applied to the surface of the limb.

D is a hinged wooden cap, adjusted below the rubber cap C on the limb, and enveloped by the rubber cap C. The case A is then placed upon the limb.

The hinged cap D, enveloped by the rubber cap C, enters the mouth of the case A, which is provided, at its mouth, with a flange, b, surmounted by a rubber ring, which is wedged in tightly between the cap and flange, making it, at that point, perfectly air-tight, the cap being held in its place by means of the three catches, d d d, on the upper end of case or receiver A.

The more the exhaustion, the firmer is the cap wedged into the mouth of the case or receiver, and the more perfect the joint.

E is a tube, attached to the outer surface of the receiver A, to which is attached the air-pump, for the purpose of exhausting the air from the case.

Having thus described my invention,

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

The combination of the case A with the rubber cap O, hinged cap D, band B, and catches d d d, all arranged to operate substantially in the manner and for

the purpose described.
In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

THEOPHILUS FRAVEL.

Witnesses:

J. B. METCALF, M. W. RAY.