H. LE RIE MONDIE.

Microscope.

No, 9,581. Patented Feb. 8, 1853.

Fig: 2.

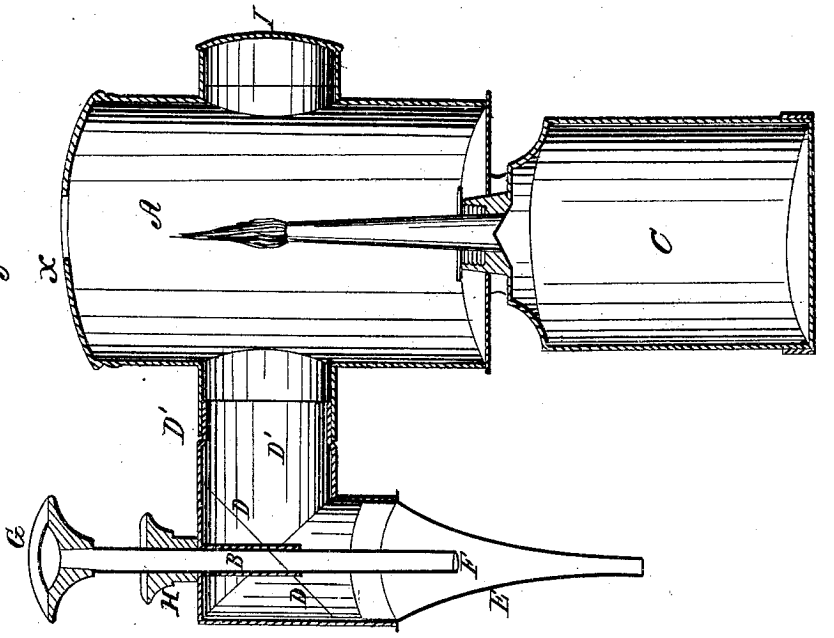
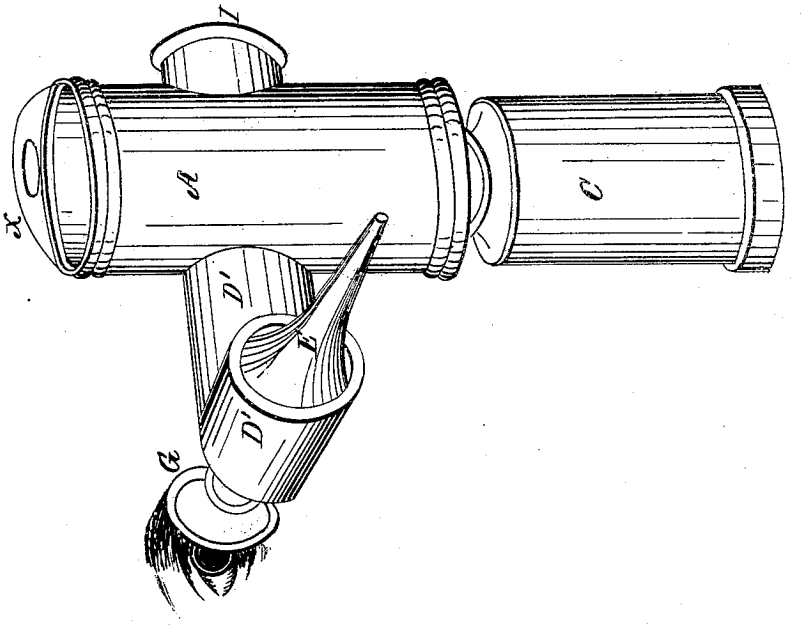


Fig: 1.



UNITED STATES PATENT OFFICE.

H. LE RIEMONDIE, OF NEW ORLEANS, LOUISIANA.

SURGICAL INSTRUMENT FOR EXAMINING THE EAR, &c.

Specification of Letters Patent No. 9,581, dated February 8, 1853; Antedated October 23, 1852.

To all whom it may concern:

Be it known that I, H. LE RIEMONDIE, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful instrument for examining the ear, eye, nose, or other parts of the human system, which I denominate "Le Riemondie's eye and ear microscope"; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of the instrument as in use. Fig. 2 is a sectional view through the axis of the instrument, having the axis of the sight tube (B) brought parallel to the axis of the case (A).

Similar letters in the several figures refer to corresponding parts of the instrument.

The object of my invention is so to construct such an instrument that the part to be examined is seen by light reflected upon it from the interior of the instrument.

In the drawings (A) is a cylindrical case or base of the instrument containing a lamp C. To the side of the case (A) is attached a concave reflector (I) made of silvered plate.

(X) is a concave top or dome of the case, intended to confine the light to the body of the instrument, having an opening in the center for the escape of the smoke from the lamp.

(D′) is a right angled tube attached to the base (A) of the instrument for containing and confining the oblique reflector (D) and the sight tube (B). In the extremity of the sight tube (B) is the lens F for magnifying the object to be examined.

At the extremity of one arm of the right angled tube (D′) is the conical or funnel shaped tube and reflector (E), plated on the inside with silver and acting as a reflector.

The sight tube works in the tube (H), which is fastened into the top of the case (D′) for the purpose of adjusting the focus.

To use the instrument, adjust the lens and reflectors, light the lamp and insert it into the case (A) of the instrument. The light will be reflected by the concave reflector (I) to the oblique plane reflector (D), and from that to the reflector (E) thence to the object to be examined and thence through the lens (F) to the eye of the operator. Insert the extremity of the tube (E) into the ear, nose, or other part to be examined, said tube opening a passage to the part to be examined which is viewed through the lens F by the light reflected as described above.

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

The construction of an instrument for examining the interior of the ear, nose, eye, or other part of the human system, by the combination of the reflectors I D E, the lens F, case A, tubes B H D′, and lamp C substantially in the manner herein specified.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

H. LE RIEMONDIE.

Witnesses:

T. W. NETTLETON,

WM. P. ELLIOT.