(No Model.)

K. HOHMANN.

SPECULUM.

No. 605,715. Patented June 14, 1898.

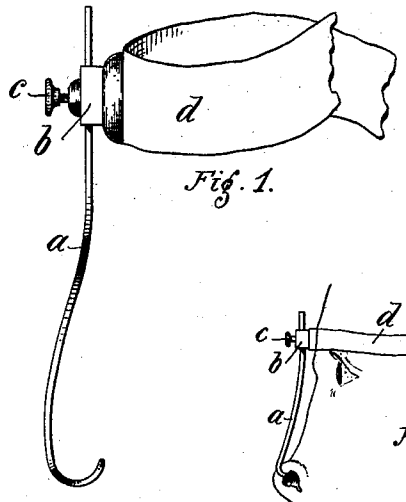


Fig. 1.

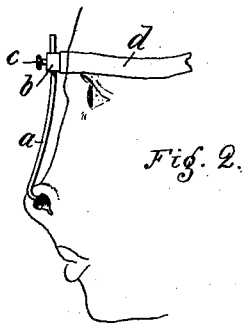


Fig. 2.

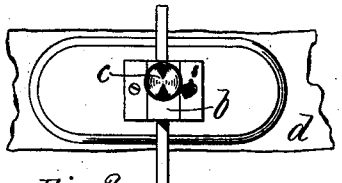


Fig. 3.

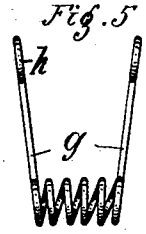
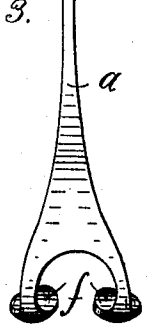


Fig. 5.



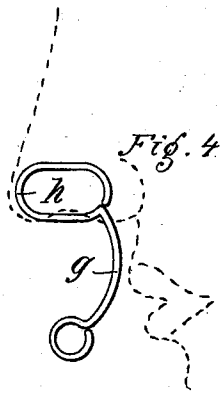


Fig. 4.

Witnesses:
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Paul C. Schilling

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

KARL HOHMANN, OF NEUKIRCHEN, GERMANY.

SPECULUM.

SPECIFICATION forming part of Letters Patent No. 605,715, dated June 14, 1898.

Application filed December 4, 1897. Serial No. 660,795. (No model.)

To all whom it may concern:

Be it known that I, KARL HOHMANN, physician, a subject of the Emperor of Germany, residing at Neukirchen, district of Ziegenhain, Germany, have invented certain new and useful Improvements in Surgical Instruments for Use in Intranasal Operations, of which the following is a specification.

My invention has reference to improvements in surgical instruments for use in intranasal operations; and it consists principally in a hook-shaped fork to draw up the nostrils and in a spring to distend the nostrils in a lateral direction, so as to afford the operator an unobstructed view into the nasal cavity and the largest possible opening for the introduction of his instruments.

In order to make my invention more easily understood, I have illustrated it in the accompanying drawings, in which—

Figure 1 is a side view of the device for drawing up the nostrils. Fig. 2 is this instrument in position on the head of the person to be operated upon. Fig. 3 shows a front view of this device, while Figs. 4 and 5 show a front view and side view of the spring device.

A hook-shaped double-ended fork-like curved piece of metal *a* is guided with its upper narrowed part *l* in a guide-piece *b*, fastened on a band of india-rubber or a like material *d*. A thumb-screw *c* in the guide-piece *b* serves to hold the fork in the desired position. The band is fastened by a buckle or a like device around the head of the person to be operated upon in such a way that the guide-piece rests upon the forehead. The fork is then inserted with its hook-shaped ends *i* in the nose, one hook in each nostril, and moved upward in the guide-piece until the nostrils are well drawn up, when it is to be secured in this position by the thumb-screw.

In order to distend the nostrils laterally, I provide for each nostril a device consisting of a coil-spring *k*, the two ends *g* of which are carried out in a straight, or nearly so, direction and are then bent into an oblong shape, as at *h*. These two ends are pressed together by the fingers of the operator and are thus inserted into the nostril, when by letting go the fingers they will press outwardly the outer wall of the nostril. As the coil-spring is resting upon the upper lip, it does not in any way interfere with the work of the operator.

Having now fully described and ascertained the nature of my said invention and in what manner the same is to be used, I declare that what I claim is—

In combination the curved fork *a*, having two hook-shaped ends *i* and a narrowed upper part *l*, the guide-piece *b*, with the thumb-screw *c* and the head-band *d*, all substantially as set forth.

KARL HOHMANN.

Witnesses:
EDUARD MEDER,
WILHELM KNAUP.