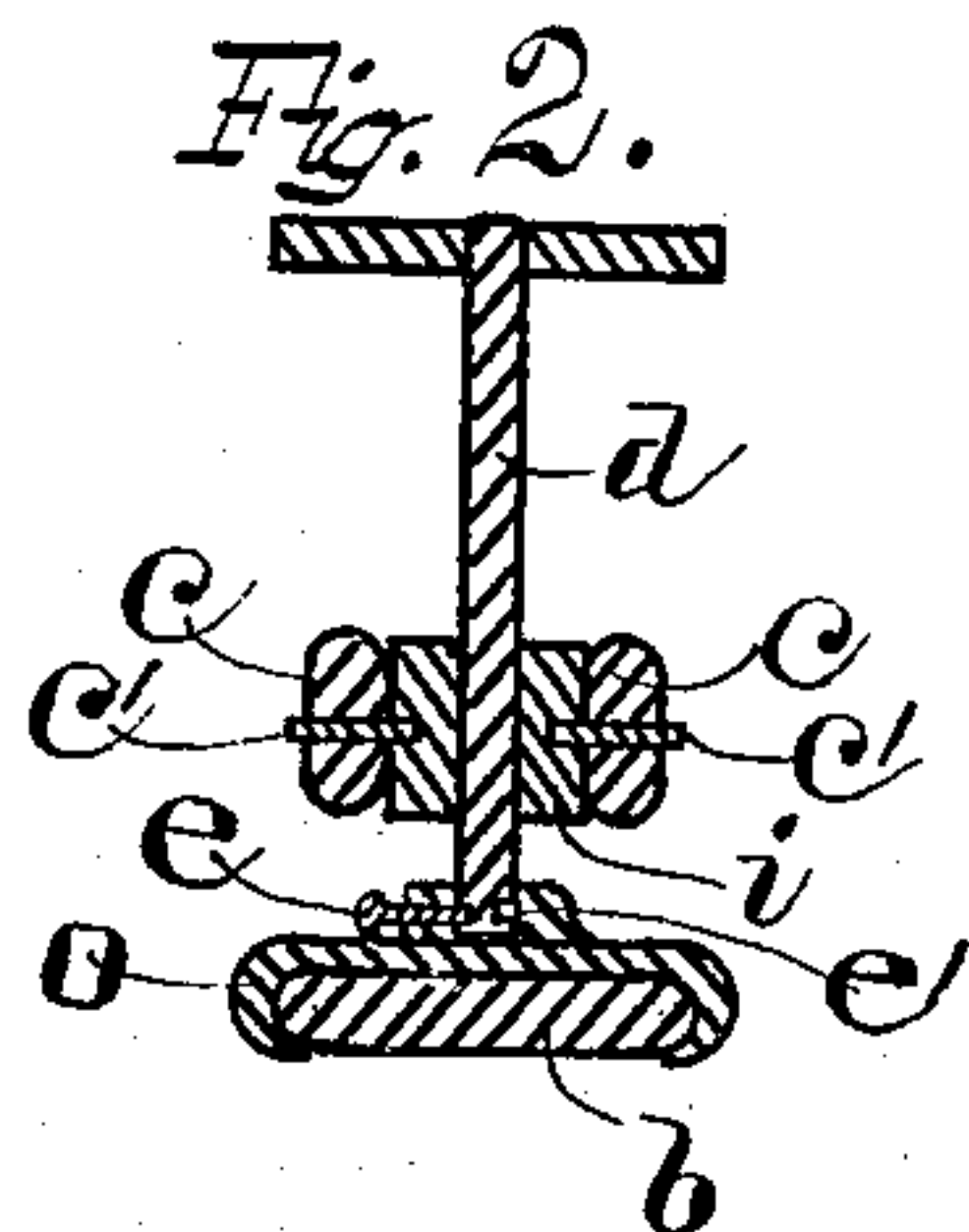
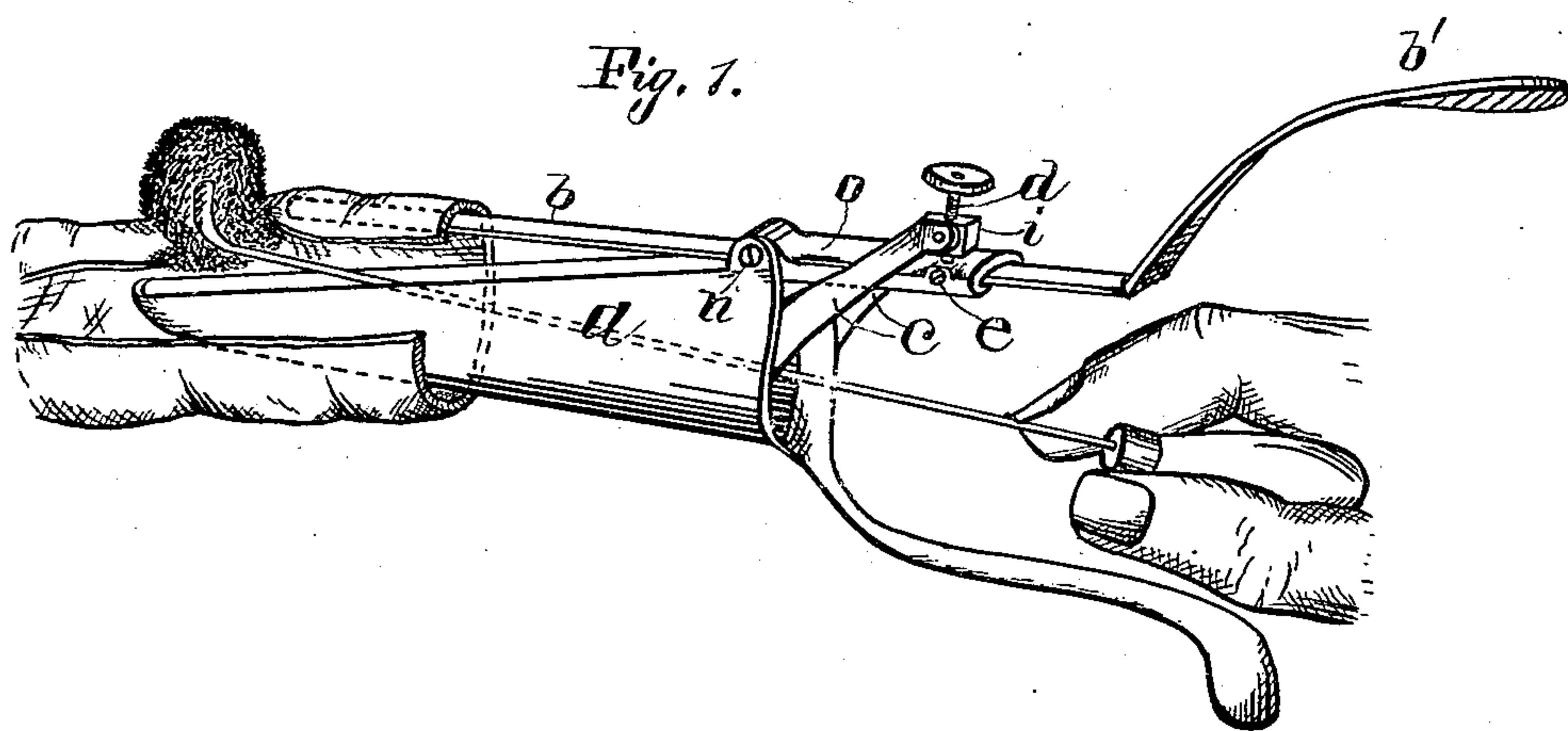


(No Model.)

J. E. CAPS.
SPECULUM.

No. 254,457.

Patented Mar. 7, 1882.



UNITED STATES PATENT OFFICE.

JOHN E. CAPS, OF CINCINNATI, OHIO.

SPECULUM.

SPECIFICATION forming part of Letters Patent No. 254,457, dated March 7, 1882.

Application filed December 3, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. CAPS, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have
5 invented a new and useful Speculum, of which the following is a specification.

My invention relates to improvements in speculums for the examination of diseases of the rectum; and the objects of my improve-
10 ments are to give a sliding motion to one of the blades of a bivalve-speculum and adjust its throw or angle of inclination. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

15 Figure 1 is a perspective view of my speculum as in use. Fig. 2 is a cross-section of the vibrating lid cut through the center of the thumb-screw, pivots, &c.

The speculum consists of the body *a*, handle
20 *a'*, and brackets *c*, with the hinged and pivoted parts, as shown in Fig. 1. The body of the speculum is made smaller at one end, with an elongated slot cut the entire length of the body *a*. In this slot the vibrating lid *b* works on the pivots
25 *n*, as shown in Fig. 1. The larger end of the body *a* has two brackets, *c*, one on each side of the lid *b*. The smaller ends of these brackets come nearly together, or just close enough to allow the nut *i* to work between them, as
30 shown in Fig. 2. The nut *i* is hinged or piv-

oted on two pivots, *c'*, so that the screw *d* will not bend in screwing it down, which would be the case if the nut *i* was made solid to the brackets. The lower end of the screw *d* has a
35 groove, *e'*, cut in it, so that when the screw is inserted in the hole in the clasp *o* the set-screw *e* is turned into the groove and prevents it from working out. By this arrangement the sliding
or vibrating lid *b* may be raised up from the
40 body *a*, so it will enlarge or elevate the parts hanging down between the sore and the outward end of the speculum, so that the sore can be operated on by looking in the body of the speculum, as shown in Fig. 1.

The lid *b* may be slid back and forth in the
45 clasp *o*, as desired, and not interfere with its raising or lowering in any way.

Having thus described my invention, I claim the following as new and desire to secure the
50 same by Letters Patent:

In a bivalve-speculum, the combination of a
hinged sleeve, an upper blade-shank sliding in the same, and a set-screw working in a bracket
extending upward from the lower blade for de-
55 pressing the shank and elevating the sliding blade, all for the purpose set forth.

JOHN E. CAPS.

Witnesses:

C. E. ADAMSON,
MAX MOSES.