(No Model.) 2 Sheets—Sheet 1.

J. A. NATERMANN.

APPARATUS FOR CAPSULATING BOTTLES.

No. 356,883. Patented Feb. 1, 1887.

Fig. 1.

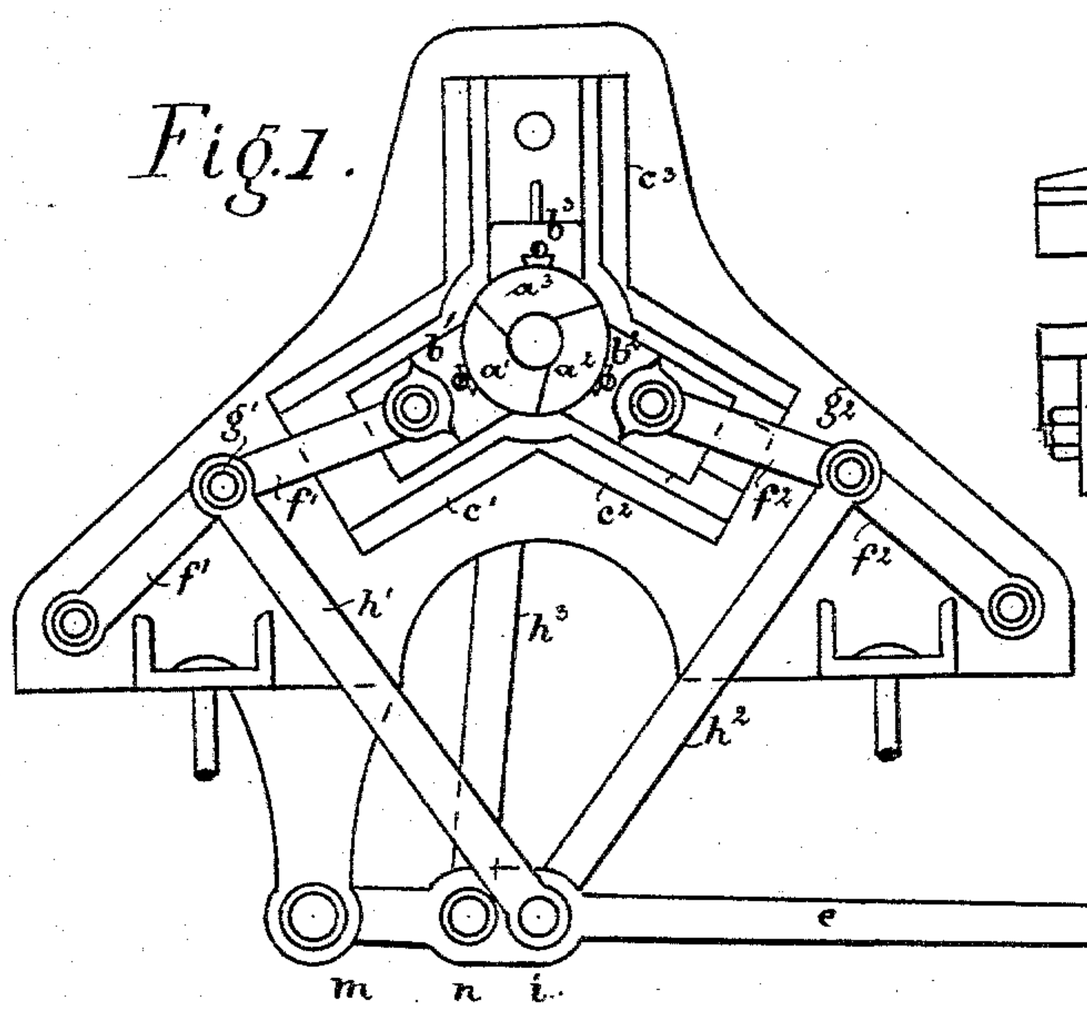
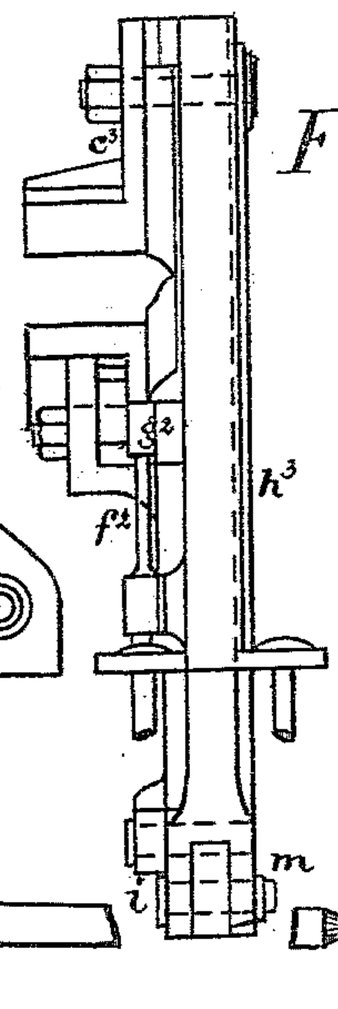


Fig. 3.



Witnesses:
Robt. H. Roy.
Wm. A. Lowe

Inventor:
J. A. Natermann
by his attorneys
Roeder & Briesen

(No Model.) 2 Sheets—Sheet 2.

J. A. NATERMANN.

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Fig. 2.

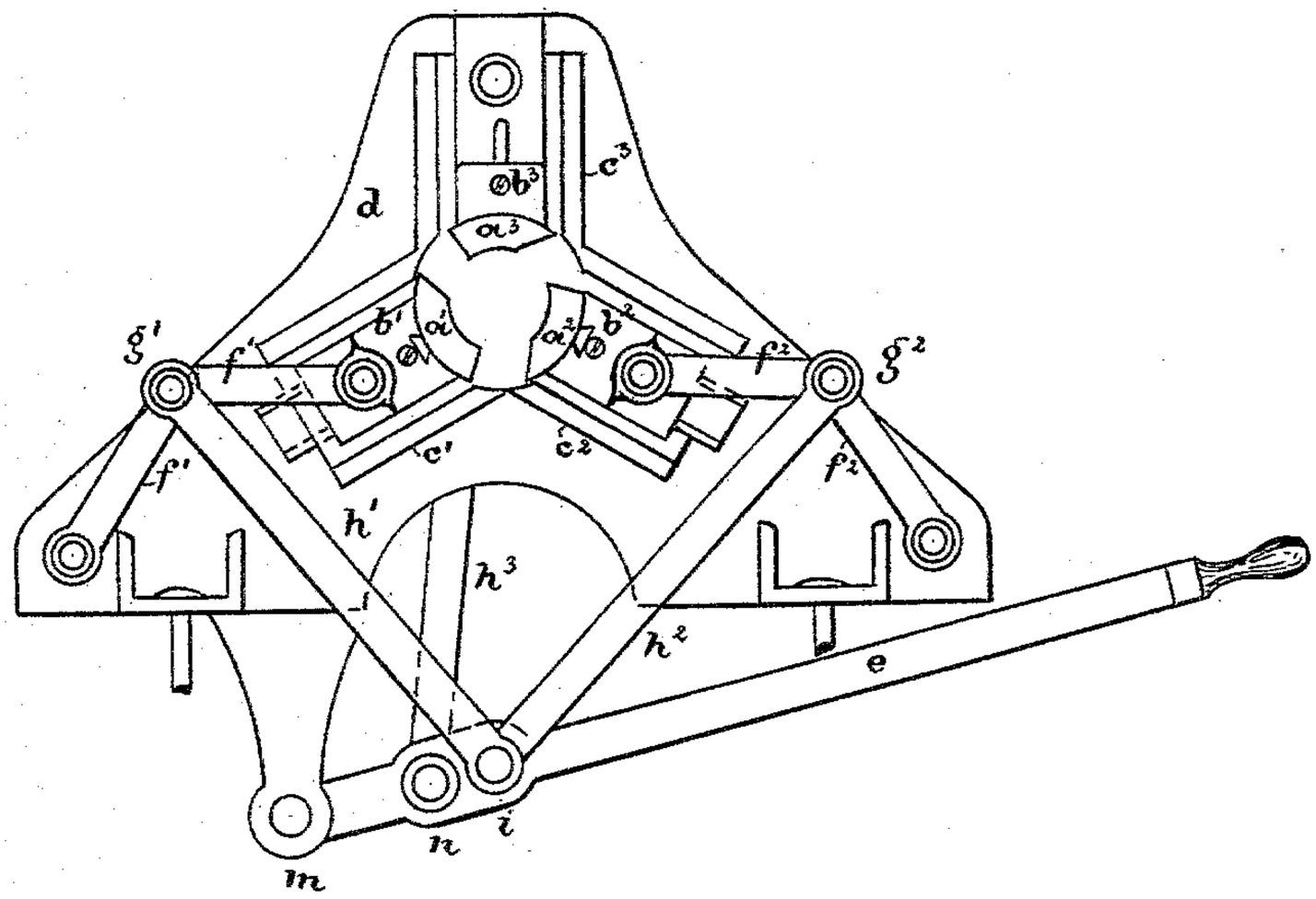
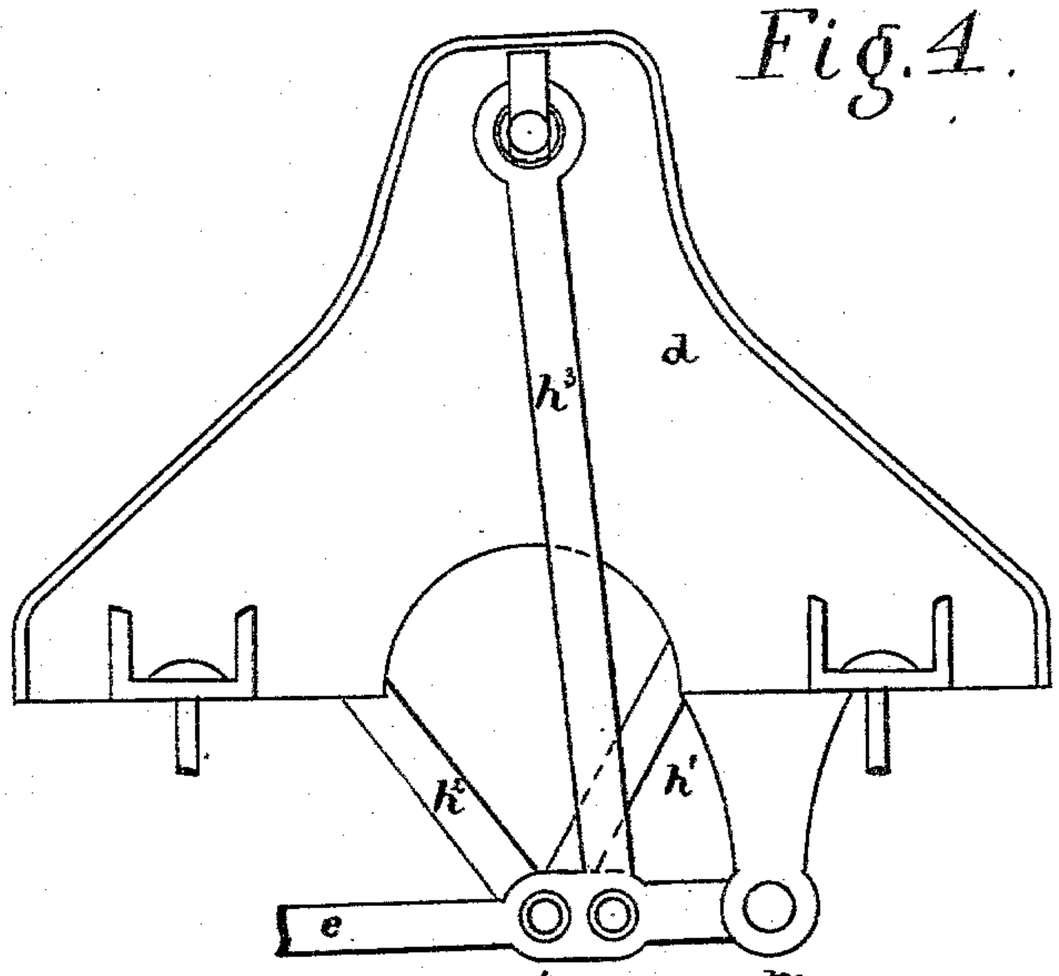


Fig. 4.



Witnesses:
Robert Ray
Wm. A. Lowe

Inventor:
J. A. Natermann
by his attorneys
Roeder & Briesen

UNITED STATES PATENT OFFICE.

JOHANN AUG. NATERMANN, OF HANNOVRISCH-MUNDEN, PRUSSIA, GERMANY.

APPARATUS FOR CAPSULATING BOTTLES.

SPECIFICATION forming part of Letters Patent No. 356,883, dated February 1, 1887.

Application filed June 28, 1886. Serial No. 206,550. (No model.)

To all whom it may concern:

Be it known that I, JOHANN AUGUST NATERMANN, a resident of the city of Hannovrisch-Munden, in the Kingdom of Prussia and German Empire, have invented a certain new and useful Improvement in Apparatus for Capsulating Bottles, Jars, and the like, of which the following is a specification.

My invention relates to improvements in apparatus for the fastening of capsules on bottles, jars, and similar articles; and it has for its object to provide an arrangement which, besides giving the radial moving jaws of the apparatus a uniform motion, transmits a great pressure on the capsules by a proportionally small pressure on the operating-lever.

In the accompanying drawings, Figure 1 represents a front view of the apparatus, showing the jaws closed. Fig. 2 represents the same with the jaws open. Fig. 3 is a side view, and Fig. 4 a back view, of the apparatus with closed jaws.

The jaws a' a^2 a^3, constructed, as usual, of india-rubber or other elastic material, are attached to slide-blocks b' b^2 b^3, which move radially toward the center in the guides c' c^2 c^3, which latter are fastened to the frame d. The slide-blocks b' b^2 are moved by toggle-levers f' f^2, connected through rods h' h^2 to the working-lever e, the knees g' g^2 of said toggle-joints f' f^2 being through the rods h' h^2 in direct communication with the working-point i of the lever e. The upper slide-block, b^3 is directly connected to a rod, h^3, the lower end of which is attached nearer to the fulcrum or pivot m of the lever e at n, so that the direct-moved slide-block b^3 may have the same power and amount of motion transmitted to it as the slide-blocks b' b^2, operated by the toggle-joints f' f^2.

What I claim as my invention is—

The combination of jaws a' a^2 a^3 with slide-blocks b' b^2 b^3 and radial guides c' c^2 c^3, the toggle-levers f' f^2, rods h', h^2, and h^3, said rod h^3 being directly connected to the slide-block b^3 and lever e, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOH. AUG. NATERMANN.

Witnesses:

M. M. ROTTEN,

B. ROI.