

(No Model.)

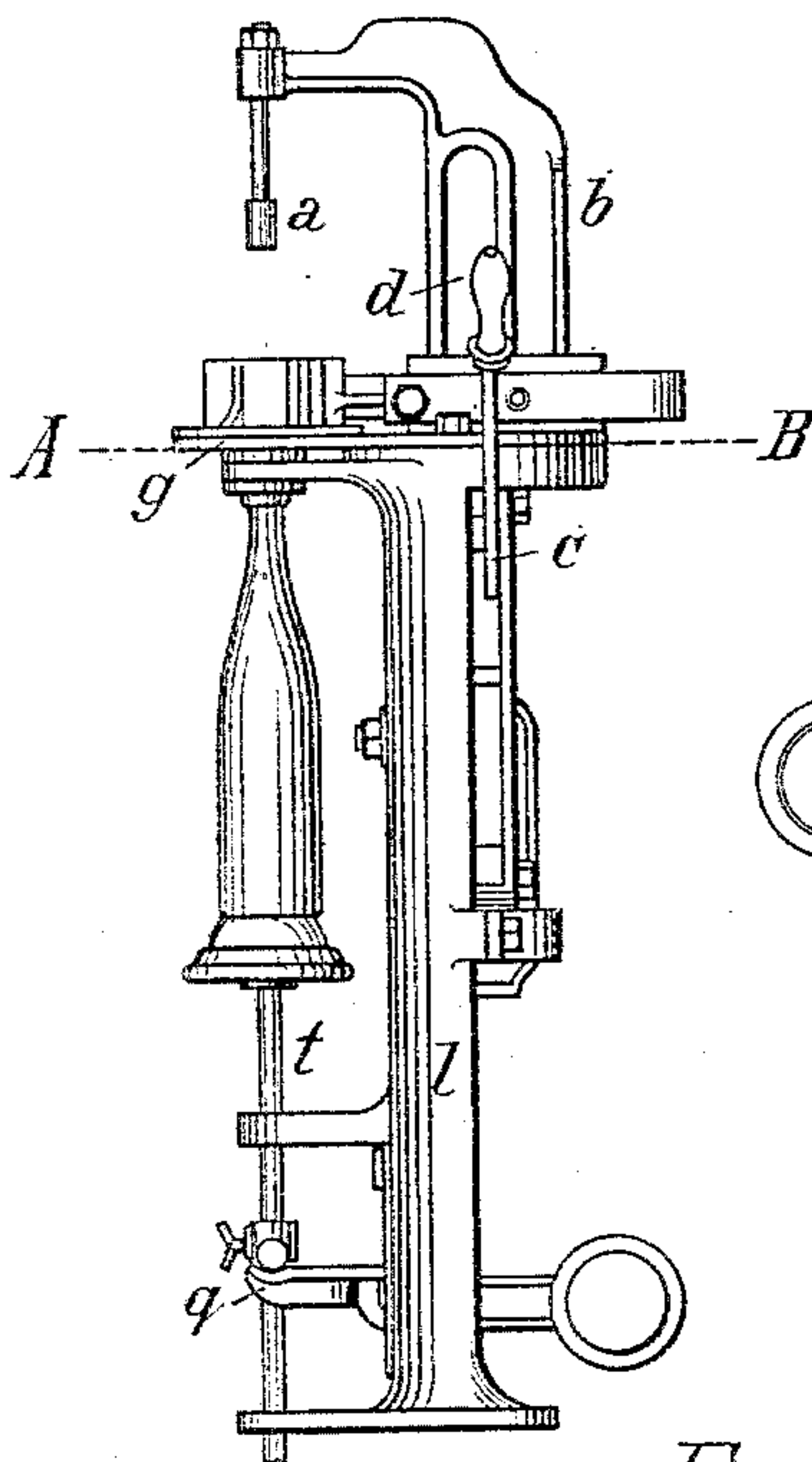
J. J. H. SCHULTZ.

CORKING MACHINE.

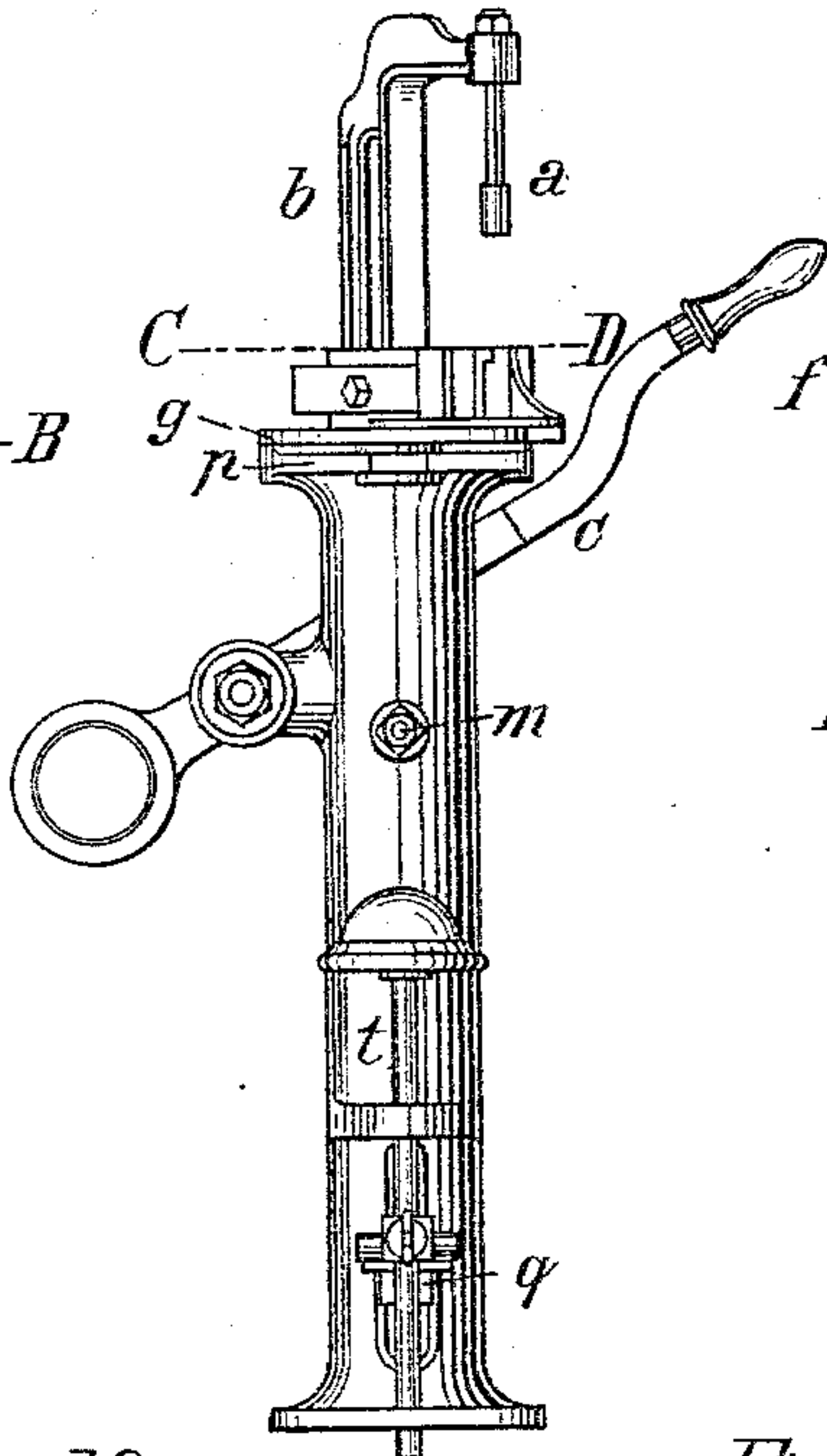
No. 319,138.

Patented June 2, 1885.

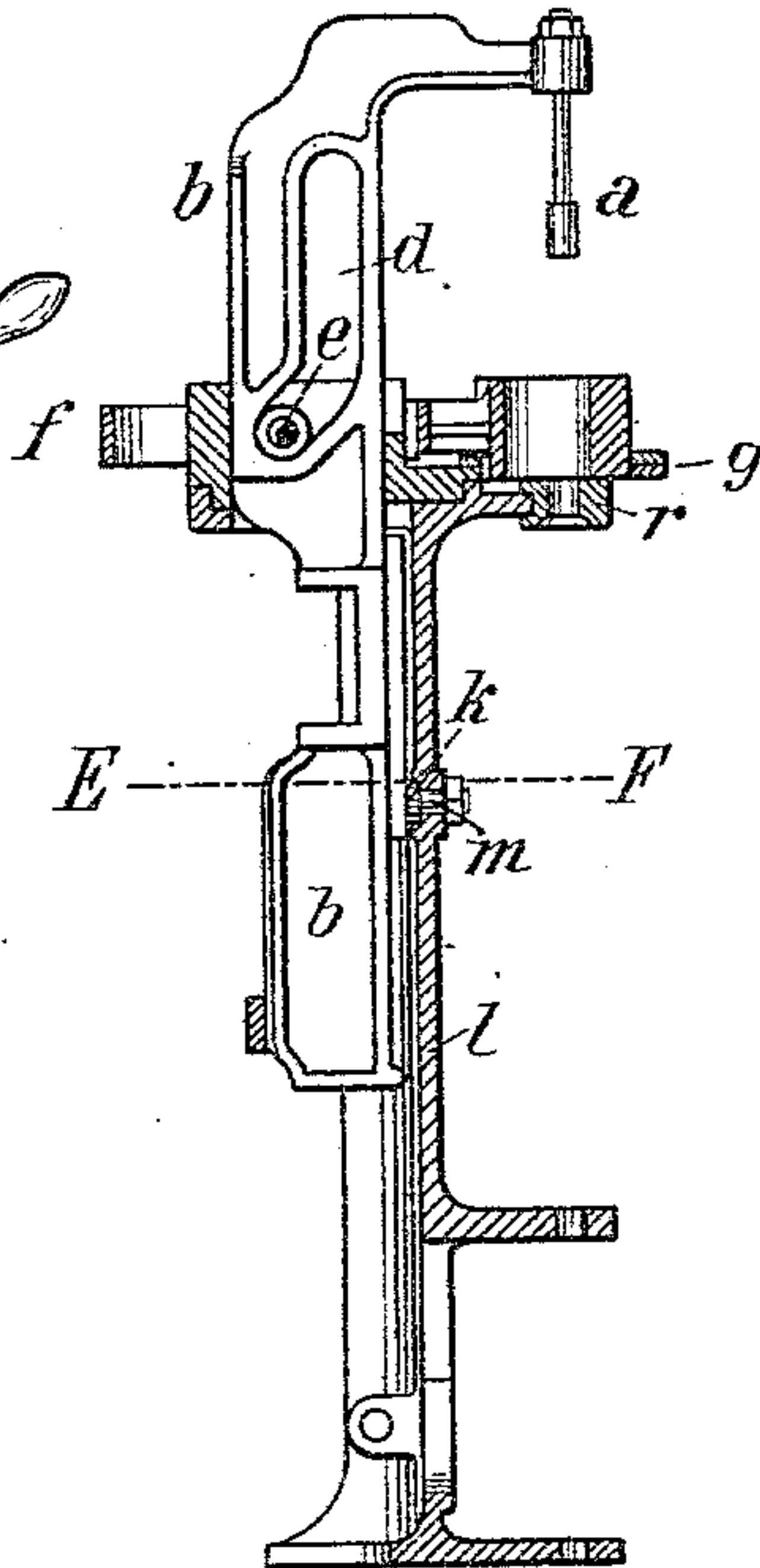
*Fig. 1.*



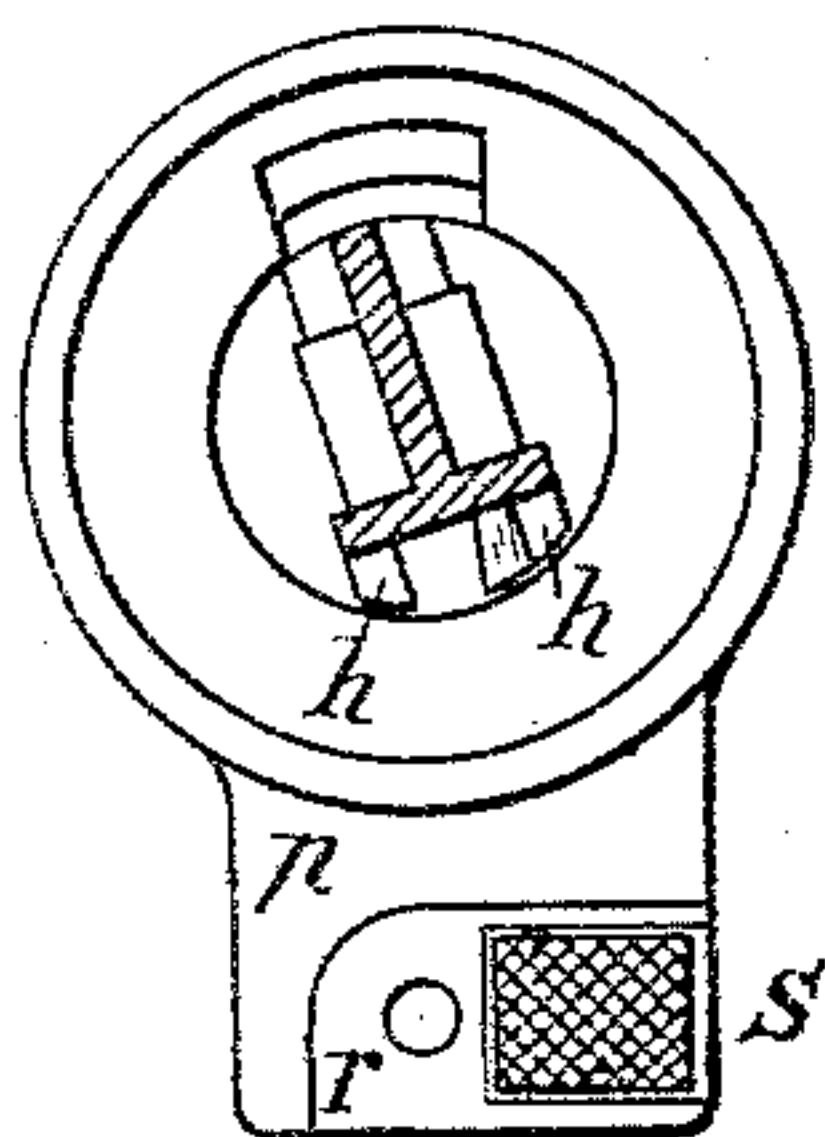
*Fig. 2.*



*Fig. 3.*



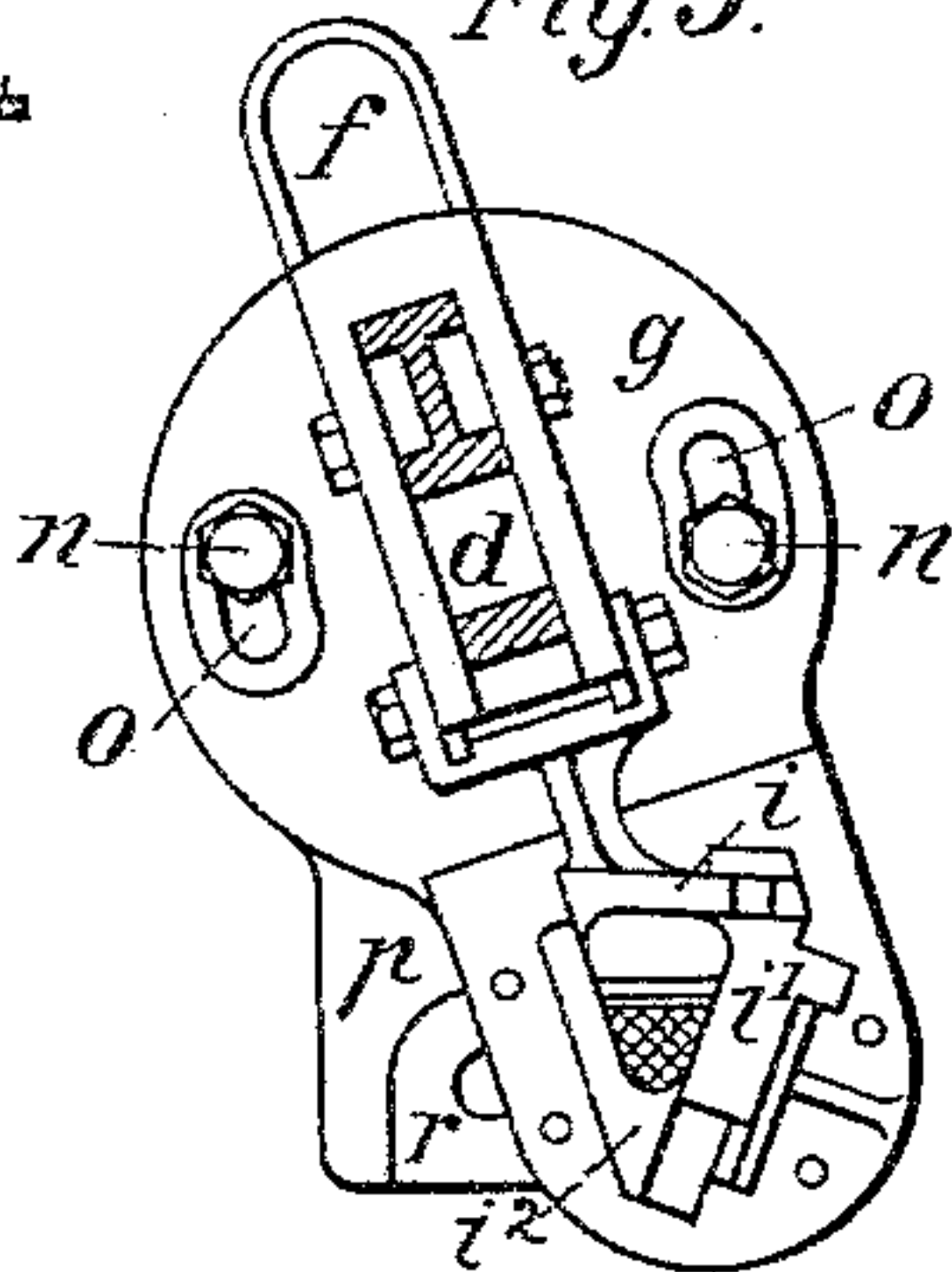
*Fig. 4.*



*Fig. 10.*



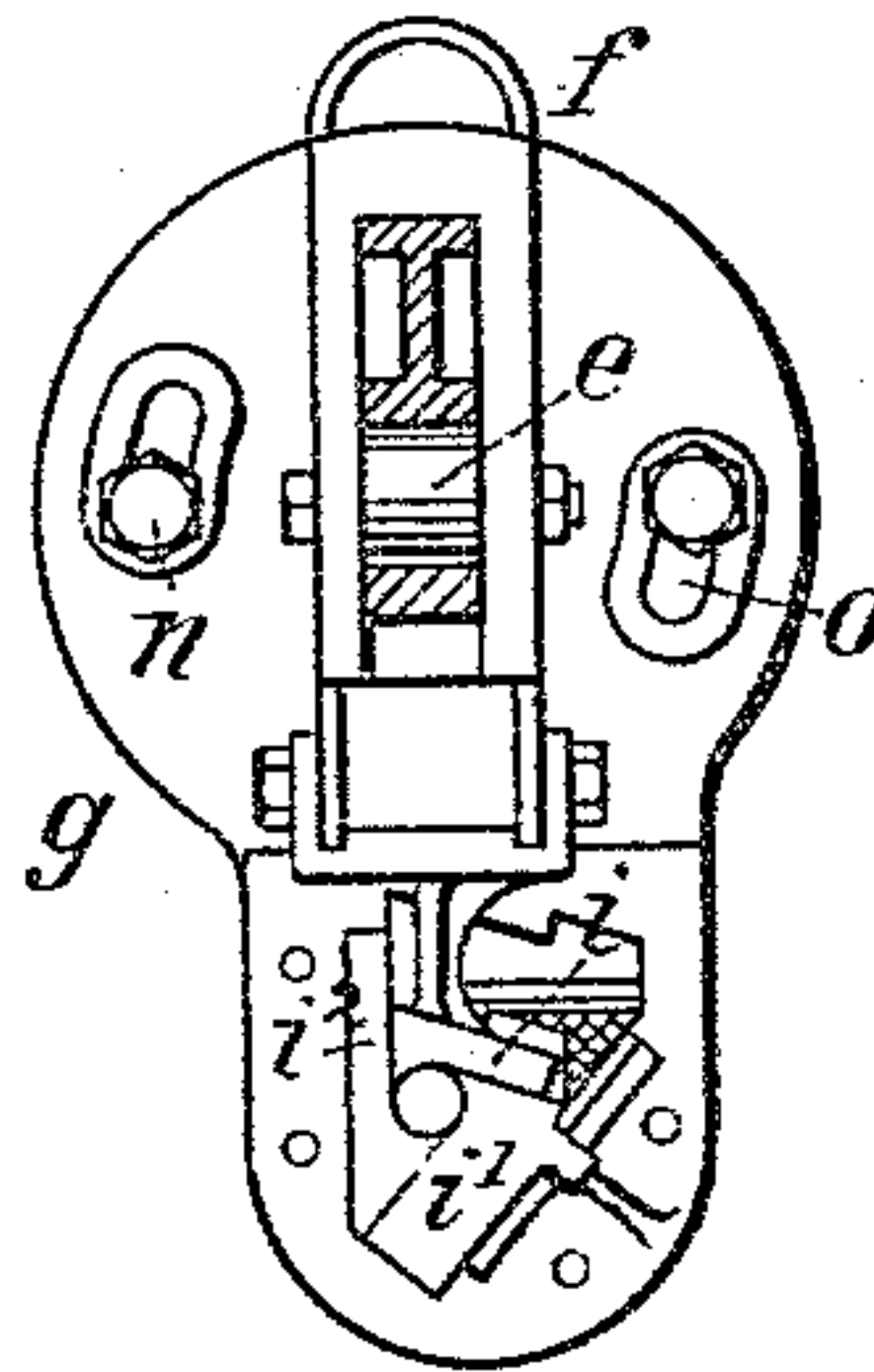
*Fig. 5.*



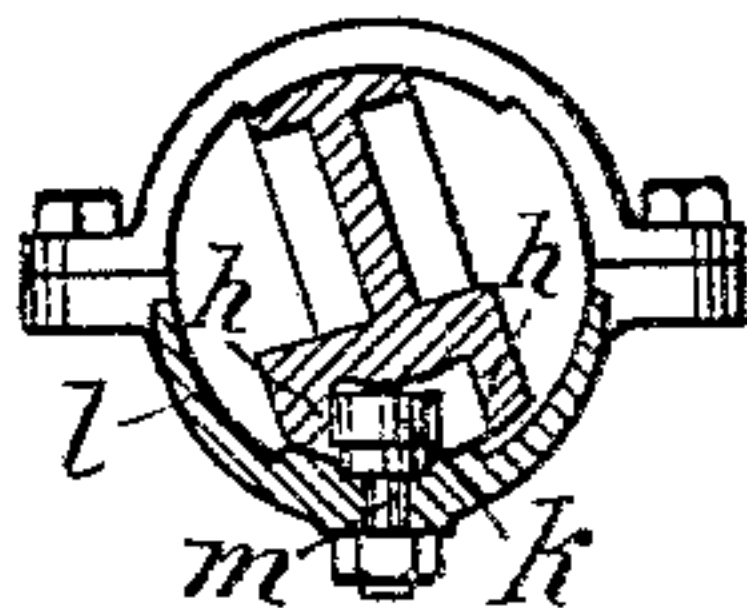
*Fig. 11.*



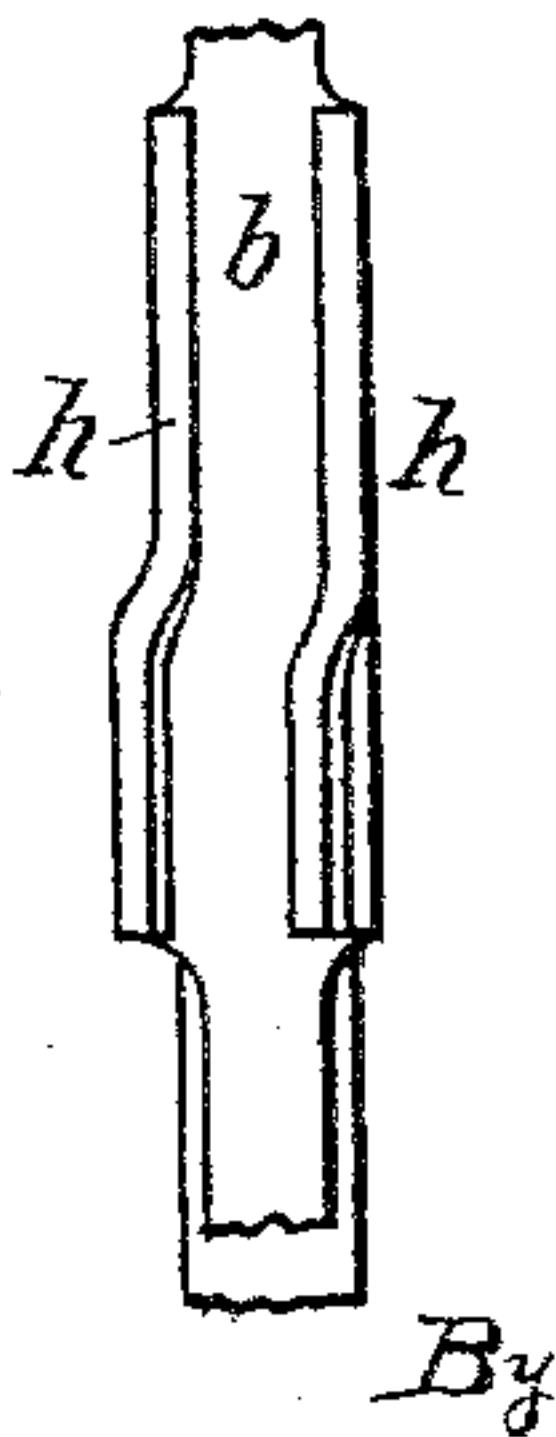
*Fig. 6.*



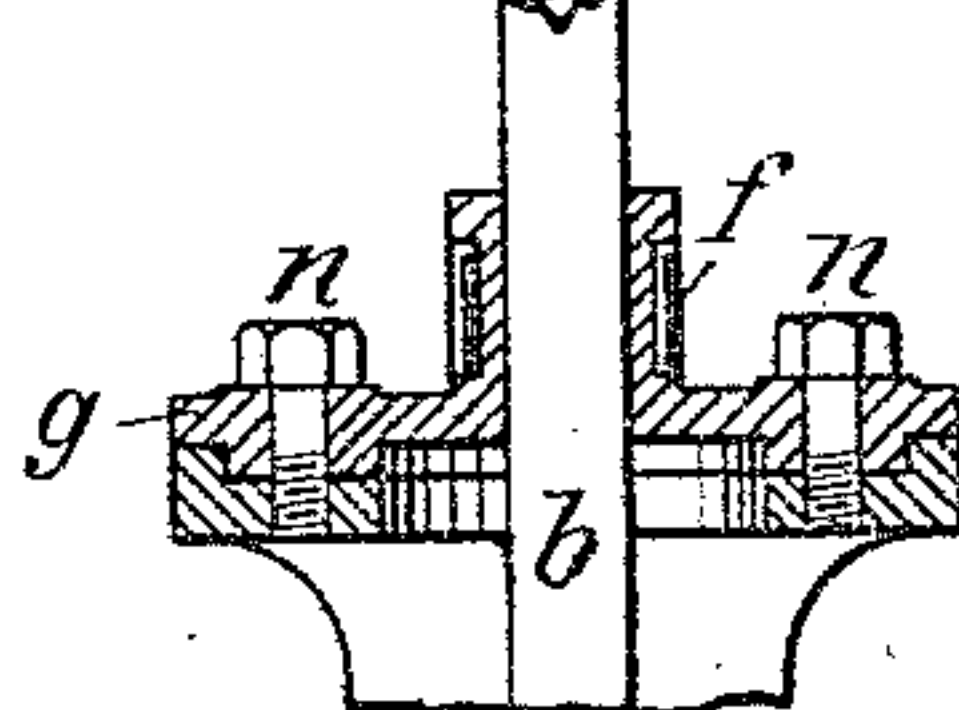
*Fig. 7.*



*Fig. 8.*



*Fig. 9.*



Witnesses.

C. J. Bell.  
O. A. Clark.

Inventor.

Johann J. H. Schultz.  
Paine & Ladd,  
Attorneys.



# UNITED STATES PATENT OFFICE.

JOHANN JACOB HERMANN SCHULTZ, OF HAMBURG, GERMANY.

## CORKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 319,138, dated June 2, 1885.

Application filed October 9, 1884. (No model.) Patented in England March 31, 1883, No. 1,638, and in Germany July 5, 1883, No. 23,902.

*To all whom it may concern:*

Be it known that I, JOHANN JACOB HERMANN SCHULTZ, a subject of the Emperor of Germany, and a resident of Hamburg, in the German Empire, have invented certain new and useful Improvements in Machines for Corking Bottles, of which the following is a specification.

The invention relates to improvements in corking-machines in which the cork is compressed automatically; and the objects of my improvements are, first, to avoid the dropping of the cork-dust mixed with the liquid wherein the cork is softened into the bottle; second, to clean the bottom of the cork from such or similar impurities before entering into the bottle-neck; and, third, to compress the cork from equidistant points around its axis. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a corking-machine provided with my improvements. Fig. 2 is a front elevation thereof, and Fig. 3 a vertical section. Fig. 4 is a horizontal section at the line A B, Fig. 1. Fig. 5 is a horizontal section at the line C D, Fig. 2. Fig. 6 shows the same section after closing the cork-compressor. Fig. 7 is a horizontal section at the line E F, Fig. 3. Figs. 8 to 11 are detailed views.

Similar letters refer to similar parts throughout the several views.

The sliding piece *b*, bearing the pusher *a*, is lowered by pressing down the weight-lever *c*. The crooked slit *d* of the slide-piece, in which the roller *e* is guided, transfers the vertical motion of the slide-piece to a horizontal one of the compressor-frame *f*, wherein the roller *e* is resting. The compressor-jaw *i* is fastened to the frame *f*, while the jaw *i'* slides in suitable guides on the base-plate *g*, whereto the third jaw, *i''*, is fixed. A notch, wherein the jaw *i'* engages, is provided in the jaw *i*, thus causing both the movable jaws to approach each other and to the fixed jaw *i''* when the jaw *i* is advanced. The cork placed between such jaws is thereby compressed from three equally-distant points. The lower part of the slide-piece *b* is provided with two paral-

lel crooked guides, *h*, wherein engages a roller, *k*, pivoted by the bolt *m* to the frame *l* of the machine. Thus the downward motion of the slide-piece *b* causes simultaneously an oscillation, which, as the piece *b* slides closely inside a slit of the plate *g*, is communicated to such plate, which, resting loosely on the frame *l*, oscillates when the slide-piece *b* is lowered or raised. Two screw-bolts, *n*, passing through slits *o* of the plate *g*, connect the latter to the platform *p* of the frame or stand *l*. The platform *p* bears the mouth-piece *r*, whereto the bottle-mouth is pressed by means of the weight-lever *q* and bottle-stand *t*, and, besides, the mouth-piece *r*, the brush *s*, or a similar cleansing device, over which the cork compressed by the jaws *i i'* is passed before being pushed by the piston *a* through the mouth-piece *r* into the bottle-neck. The cork, being compressed sideward from the bottle-neck and cleaned at the bottom while passing the brush *s*, enters into the bottle entirely clean and without introducing impurities into the liquid contained in such bottle.

Having thus fully described my invention, what I desire to claim and secure by Letters Patent is—

1. In a machine for corking bottles, the combination of the vertically-sliding piece *b*, provided with a crooked slit, *d*, the compressor-frame *f*, adapted to slide horizontally and provided with roller *e*, the jaw *i*, secured to frame *f*, the base-plate *g*, provided with the fixed jaw *i''*, and the sliding jaw *i'*, working on guides formed upon the surface of plate *g*, so that the horizontal movement of frame *f* causes the jaws to compress the cork, substantially as described and shown.

2. In a machine for corking bottles, the combination of the vertically-sliding piece *b*, provided with a crooked slit, *d*, and with the crooked guides *h*, the roller *k*, pivoted to the frame of the machine, the base-plate *g*, receiving an oscillating movement from the guides *h*, the platform *p*, having mouth-piece *r* therein, and the brush *s*, for cleaning the bottom of the cork, substantially as shown and described.

3. In a machine for corking bottles, the

combination of the pusher *a*, the vertically-sliding piece *b*, having crooked slit *d* and crooked guides *h*, the weight-lever *c*, the compressor-frame *f*, adapted to slide horizontally  
5 and provided with roller *e*, the jaw *i*, secured to frame *f*, the base-plate *g*, oscillated by the guides *h* and provided with the fixed jaw *i'*, the sliding jaw *i''*, the roller *k*, pivoted to the frame of the machine, the platform *p*,  
10 having mouth-piece *r* therein, and the brush

*s*, substantially as described and shown, and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 16th day of September, 1884.

JOHANN JACOB HERMANN SCHULTZ.

Witnesses:

DIEDRICH PETERSEN,  
EMIL HAASE.