

No. 747,351.

PATENTED DEC. 22, 1903.

H. D. ARMSTRONG.  
CORKSCREW.

APPLICATION FILED SEPT. 15, 1902.

NO MODEL.

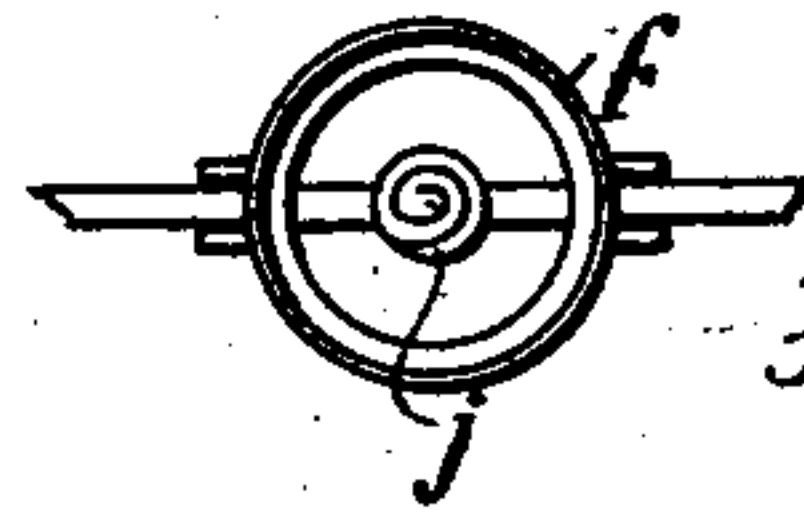
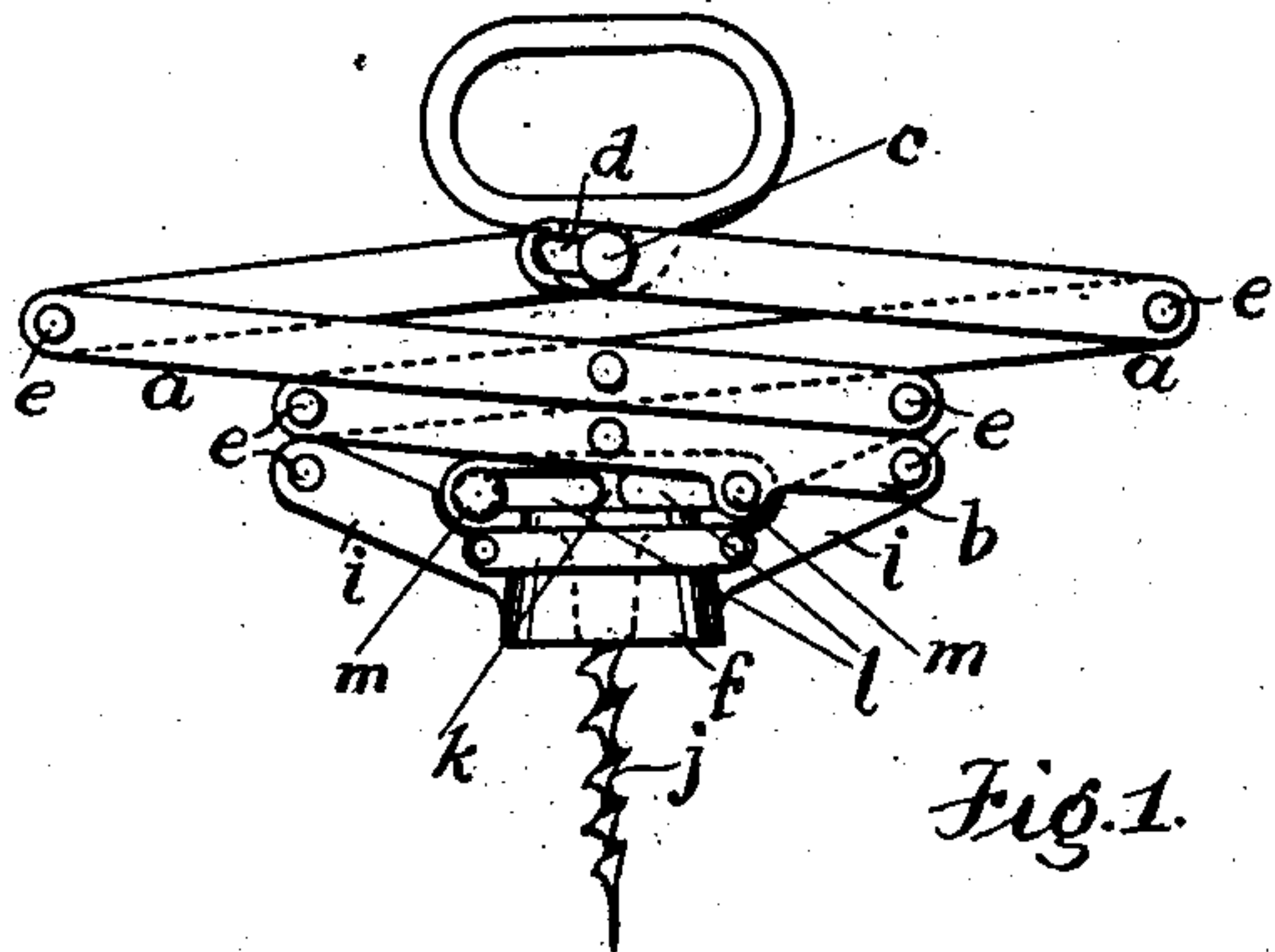


Fig. 4.

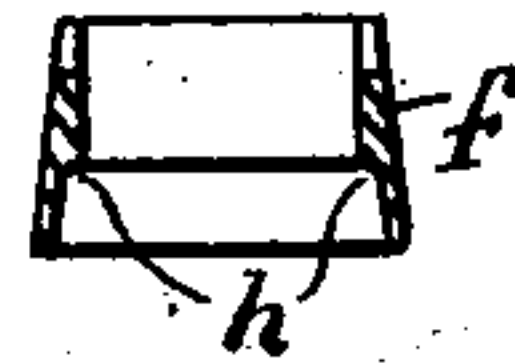


Fig. 5.

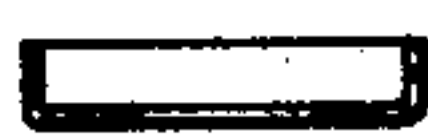


Fig. 6.

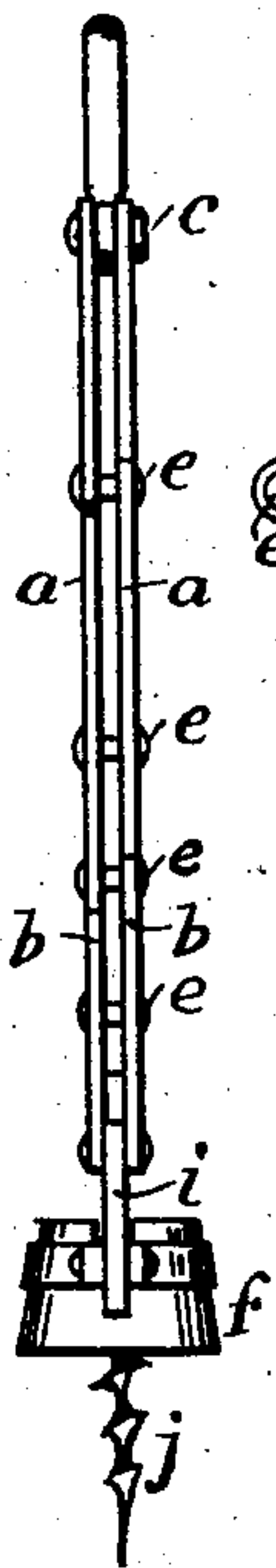


Fig. 3.

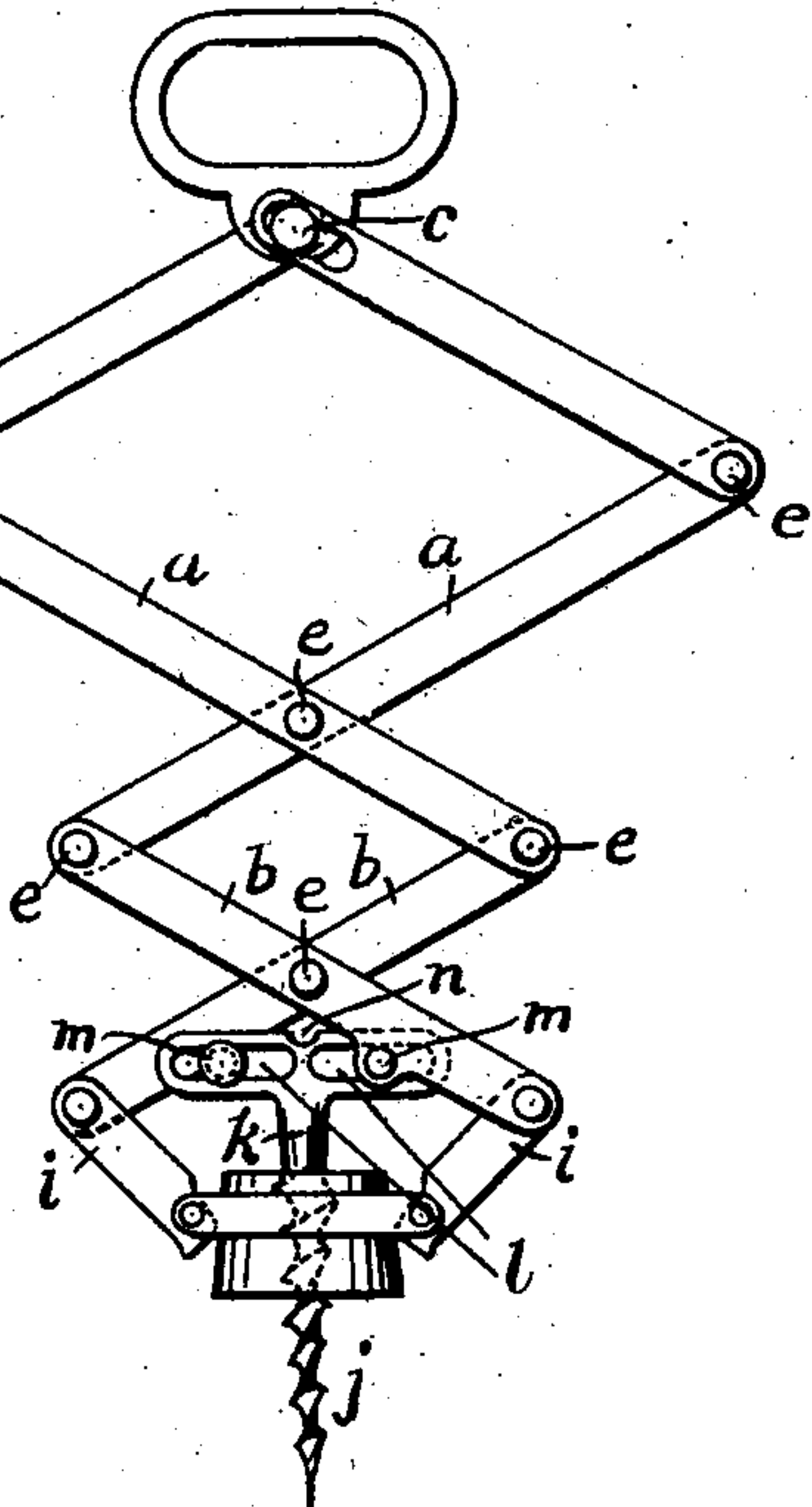


Fig. 2.

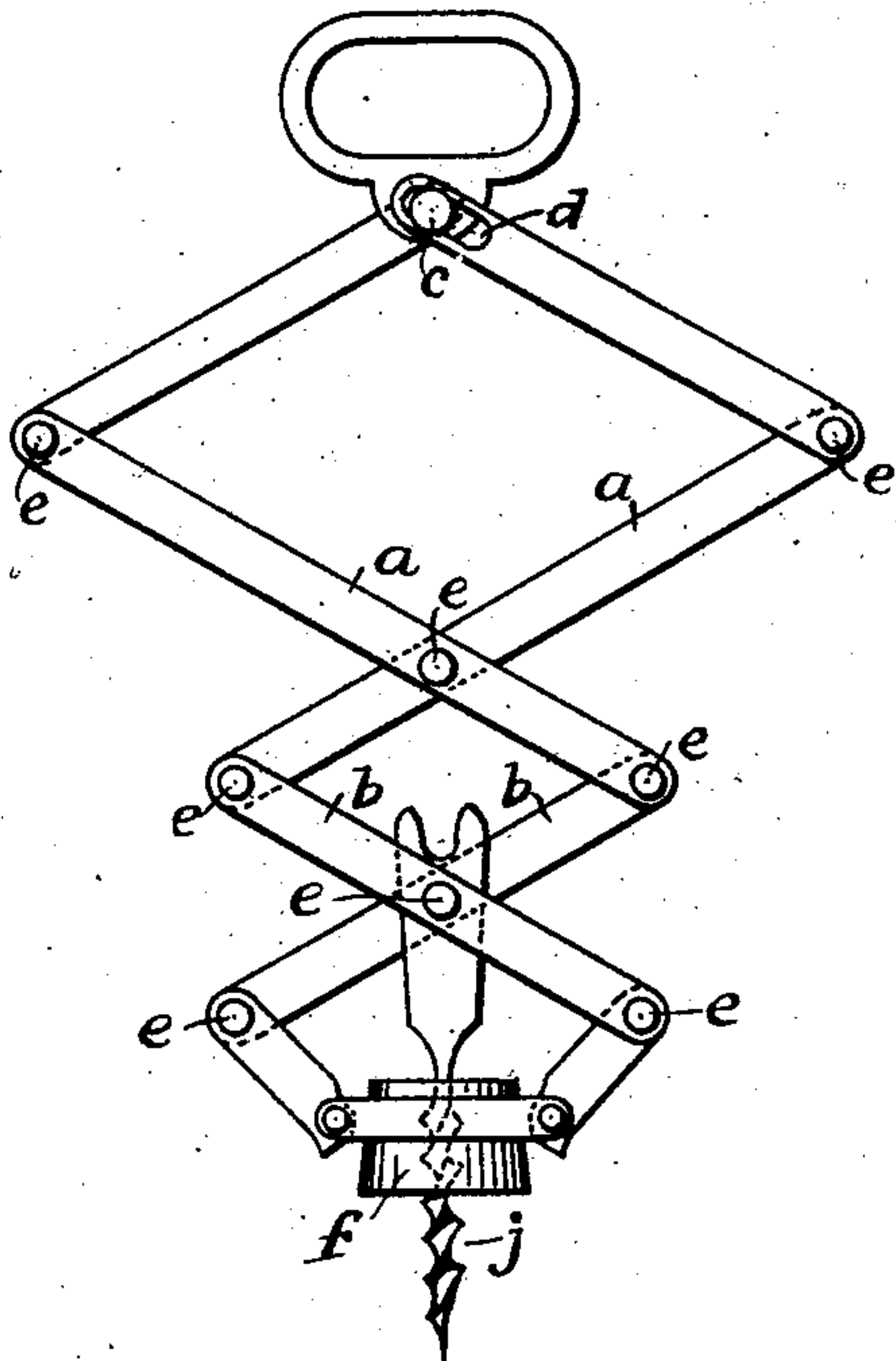


Fig. 7.

Witnesses.

*Geo. W. Engler*  
*Geo. H. Lyne*

Inventor.

*H. D. Armstrong.*

By *Wilkinson & Fisher,*  
Attorneys.

# UNITED STATES PATENT OFFICE.

HENRY DAVID ARMSTRONG, OF LONDON, ENGLAND.

## CORKSCREW.

**SPECIFICATION** forming part of Letters Patent No. 747,351, dated December 22, 1903.

Application filed September 15, 1902. Serial No. 123,487. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY DAVID ARMSTRONG, a subject of the King of England, residing at 108 Maida Vale, London, England, have invented certain new and useful Improvements in Corkscrews; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in corkscrews.

The first part of the invention refers to corkscrews provided with a series of levers commonly known as the "lazy-tongs." According to my invention I prefer to make the links forming the top parallelogram of the lazy-tongs longer than the other links in order to increase the mechanical advantage. In order to enable the top links to be completely collapsed, the top pivot may be made to slide in a slot cut in one of the links, or other suitable means may be provided for effecting the same object. If desired, more than one parallelogram may be formed with links longer than the others. In order to decrease the friction, I form each pivot in one with one of the links. I further so shape the head of the screw portion that it must clear the pivot above in closing. In order to secure further mechanical advantage, I may (either in conjunction with the above improvements or otherwise) make the top of the screw portion of the corkscrew in the form of a cross-bar having, preferably, two slots. In each of these slots works a pin attached to one of the levers of the lazy-tongs.

The second part of my invention refers to the collar, which embraces the neck of the bottle. With metal corkscrews as hitherto constructed this collar has been liable to break the neck of the bottle when considerable pressure has been employed. According to my invention I provide the collar of metal corkscrews with a rubber flange or washer, against which the neck of the bottle takes as the cork is drawn. I further form such collar with an internal rounded shoulder.

In order that my said invention may be

fully understood, I will now proceed to describe the same with reference to the drawings accompanying this specification, in which—

Figure 1 shows view of corkscrew collapsed. Fig. 2 shows view of same open. Fig. 3 shows side view of corkscrew open. Fig. 4 shows collar viewed from below. Fig. 5 shows sectional view of collar. Fig. 6 shows sectional view of rubber washer. Fig. 7 shows view of corkscrew open, the head of the screw being formed in a different manner from that shown at Figs. 1 to 3.

The same letters of reference denote the same parts in all the views.

*a* shows the links forming the top parallelogram of the lazy-tongs, such links being longer than the other links *b*. The top pivot *c* slides in a slot *d*, cut in one of the links.

*e* shows pivots.

*f* shows the collar provided, if so desired, with a rubber flange or washer, such as that shown at Fig. 6, the part of the washer fitting outside the lower part of the collar.

*h* shows internal rounded shoulder to collar *f*. This fits over the mouth of the bottle.

*i* shows links connecting the lazy-tongs with the collar *f*.

*j* shows the screw.

Referring to Fig. 2, *k* shows the head of screw formed into a cross-bar, with slots *ll*, in which slide pins *m m*, fixed to the links *b b*. The slots *ll* may be inclined, if desired, instead of as shown, and the pins *m m* may be fixed to other links of the lazy-tongs instead of being in the position shown. The cross-bar *k* is shown recessed at *n* to clear the pivot above when the links are collapsed.

Referring to Fig. 7, it will be seen that the cross-bar *k* is dispensed with, the head of the screw being pivoted at the lower part *e*, as shown.

It is understood that the number of links to the lazy-tongs may be varied.

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

A corkscrew comprising a series of lazy-tongs carrying a handle at the upper end thereof, a bottle-receiving socket carried



upon the lower end of said lazy-tongs, a corkscrew-body operating through said socket, a head upon said corkscrew-body disposed transversely thereto, and provided with a  
5 transversely-disposed slot extending longitudinally of said head, and pins upon the links of said lazy-tongs below the lower pivot-pin and extending into said slot for operating

said corkscrew-body through said socket, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

HENRY DAVID ARMSTRONG.

Witnesses:

A. E. VIDAL,

C. R. ANDREWS.