

(No Model.)

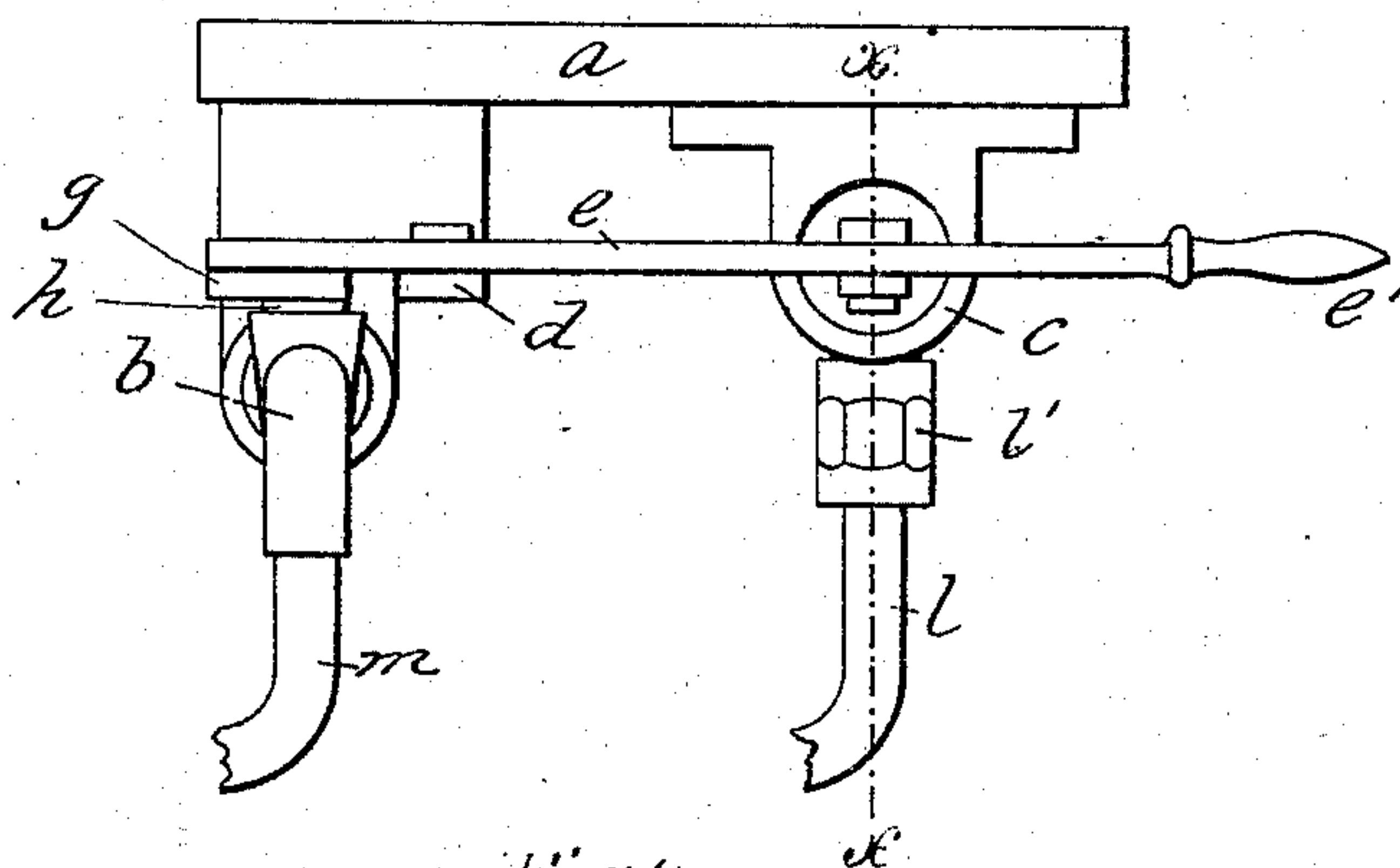
R. B. RUGGLES.

BEER PUMP.

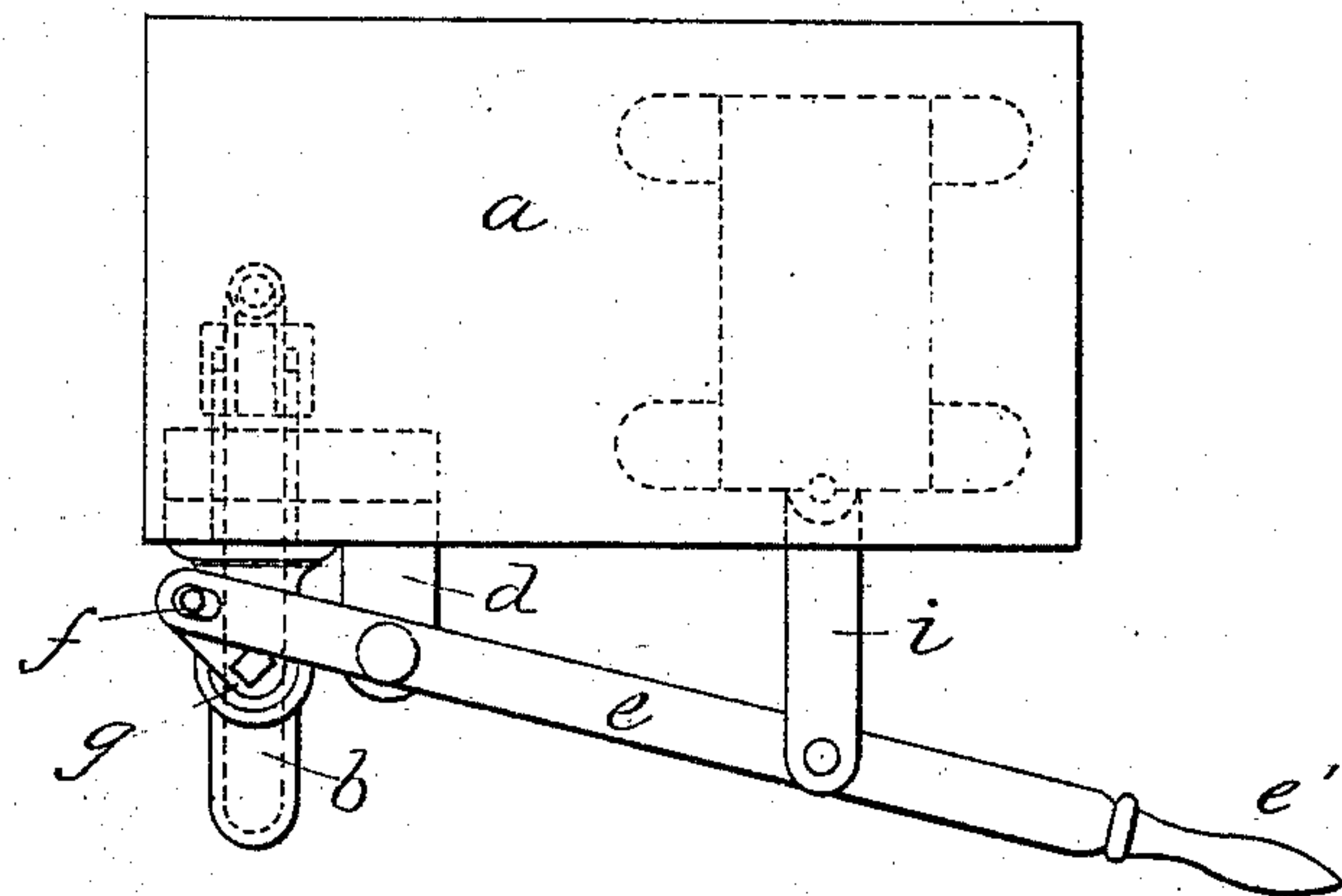
No. 272,089.

Patented Feb. 13, 1883.

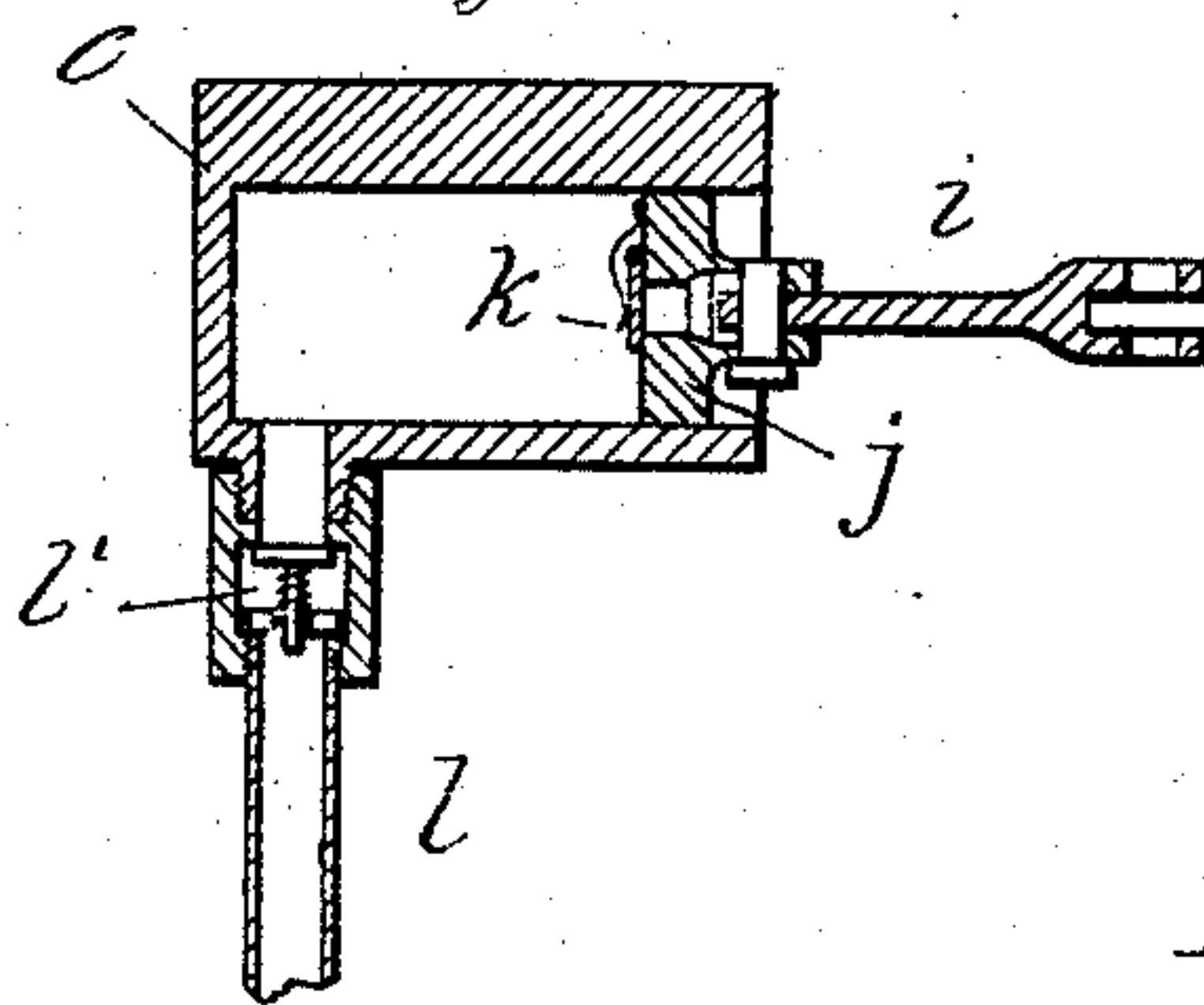
*Fig 1*



*Fig 2*



*Fig 3*



Witnesses

*W. H. Marsh*  
*W. M. Spickman*

Inventor

*Robert B. Ruggles*  
By *W. C. Simonds*,  
*Atty.*

# UNITED STATES PATENT OFFICE.

ROBERT B. RUGGLES, OF WINDSOR, ASSIGNOR OF ONE-HALF TO JOHN P. COLLARD AND JULIUS M. LESTER, OF HARTFORD, CONNECTICUT.

## BEER-PUMP.

SPECIFICATION forming part of Letters Patent No. 272,089, dated February 13, 1883.

Application filed November 3, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT B. RUGGLES, of Windsor, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Beer-Pumps, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a front view of my device, with a short piece of the pipes attached. Fig. 2 is a top view of the same. Fig. 3 is a view in central longitudinal section of the cylinder on line *xx* of Fig. 1.

My invention relates to the class of devices used for drawing ale, beer, and the like from barrels or casks from a point at a distance from and usually above the barrel, and it is perhaps best described as a beer-pump, although adapted for use with many other liquids.

The invention consists in the peculiar combination of an air-pump and a faucet with a connecting-lever, by which both are operated, and by means of which the pressure in the barrel—usually reduced by drawing off its contents—is constantly maintained at any desired degree by the same movement of the hand that opens and closes the faucet.

In the accompanying drawings, the letter *a* denotes a portion of a bar or counter, to the under side of which are secured the faucet *b*, the air-pump *c*, and the lever-stand *d*. To this stand is pivoted a lever, *e*, having a suitable handle, *e'*, at one end, and at the other a short

slot, in which plays a pivot, *f*, which is fast to the outer end of crank *g*, appurtenant to the plug *h* of the faucet. At a point on the lever between the fulcrum and the handle is pivoted the piston-rod *i* of the piston *j*, which reciprocates in the cylinder of the air-pump. This piston bears an ordinary flap-valve, *k*, which allows air to enter but not to leave the cylinder as the piston reciprocates.

A pipe, *l*, leads from the air-pump to a barrel, into which air is forced as the pump is operated, and another pipe, *m*, conveys the liquid from the barrel to the faucet by the pressure of the air in the barrel. The return of air in the pipe *l* is prevented by a check-valve, *n*.

With the parts in the position shown in the drawings, the faucet is open, and, by moving the lever to close the faucet, air is pumped into the barrel. This operation is repeated as successive portions of the liquid are withdrawn, and any desired pressure is maintained in the barrel.

I claim as my invention—

In combination, an air-pump, *c*, faucet *b*, and lever *e*, pivotally connected to the pump-piston and faucet-plug, whereby the pump and faucet are simultaneously operated by a movement of the lever, all substantially as described, and for the purpose set forth.

ROBERT B. RUGGLES.

Witnesses:

C. L. BURDETT,  
W. H. MARSH.