

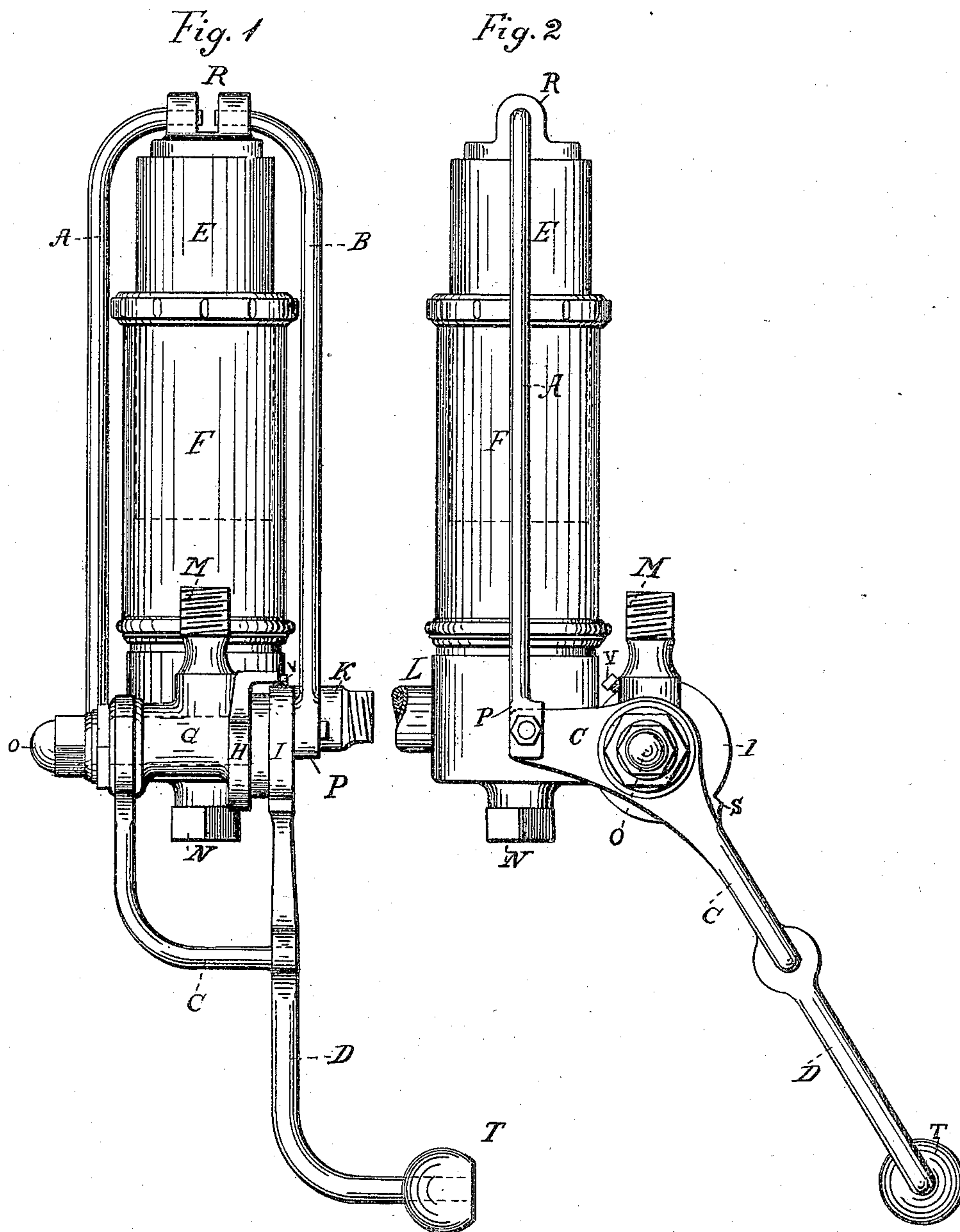
(No Model.)

H. WILL.

SIRUP GAGE FOR BOTTLE FILLING MACHINES.

No. 309,427.

Patented Dec. 16, 1884.



Witnesses.  
Edgar A. Hill.  
G. Huzel

Inventor  
Herman Will  
By Am. F. Howe  
Attorney.

# UNITED STATES PATENT OFFICE.

HERMAN WILL, OF CHICAGO, ILLINOIS, ASSIGNOR TO HAFNER & WILL, OF  
SAME PLACE.

## SIRUP-GAGE FOR BOTTLE-FILLING MACHINES.

SPECIFICATION forming part of Letters Patent No. 309,427, dated December 16, 1884.

Application filed February 4, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN WILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Sirup-Gages for Bottle-Filling Machines, of which the following is a specification.

My invention relates to improvements in sirup-gages for bottle-filling machines in which the solid plunger of the pump that regulates and feeds the sirup to the bottles is actuated by two connecting-rods, so arranged as to have a symmetrical and balanced strain on the said plunger by placing the connecting-rods on opposite sides from each other.

Figure 1 is a back elevation. Fig. 2 is a side elevation.

The pump-handles and levers C D I revolve about the fulcrum O, and are actuated by the hand when the sirup-gage is used. The solid plunger E has an up-and-down reciprocating motion. The upward movement draws in the sirup through the pipe K and the downward movement discharges it through the pipe L to the bottle-filling head by means of a rubber or other pipe. Then water is admitted by the pipe M, and washes any remaining sirup out through the pipe L. When the lever-handle T is moved through a less arc, the plunger is

raised less, and the bottle has a smaller charge of sirup. This is regulated by placing the set-screw V in different holes, so that the handle T has less angular movement before it hits the projection from I, and the plunger has less travel. Heretofore there has been but one connecting-rod, as B, passing from the top center of plunger down by one side of pump to the lever I D, connected at P. From the drawings it will be seen that such action or strain would not be central, but one-sided, having a tendency to bind the plunger in its barrel; but by the double levers C and D and the double connecting-rods A and B, journaled at P and P' to the levers, the entire strain is divided and balanced by the two connecting-rods, effecting a much smoother and very desirable movement.

I claim—

As an improvement in sirup-gage levers, the lever C D, bifurcated so as to be pivoted and combined with two opposite and symmetrical connecting-rods, A and B, in the manner set forth.

HERMAN WILL.

Witnesses:

EDGAR A. HILL,  
G. HUZEL.