

H. KRAUT.  
Adjustable Measure.

No. 58,838.

Patented Oct. 16, 1866.

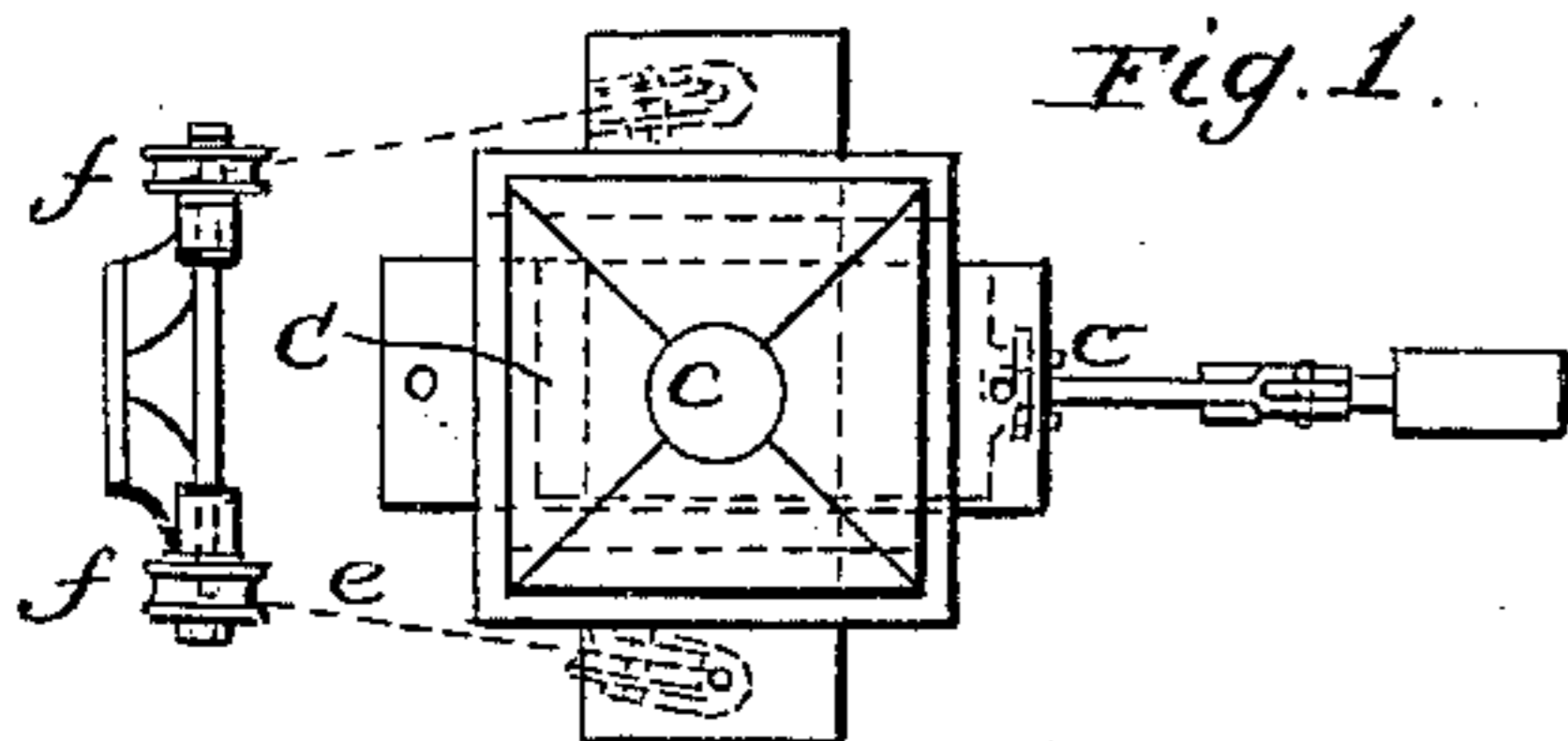


Fig. 1.

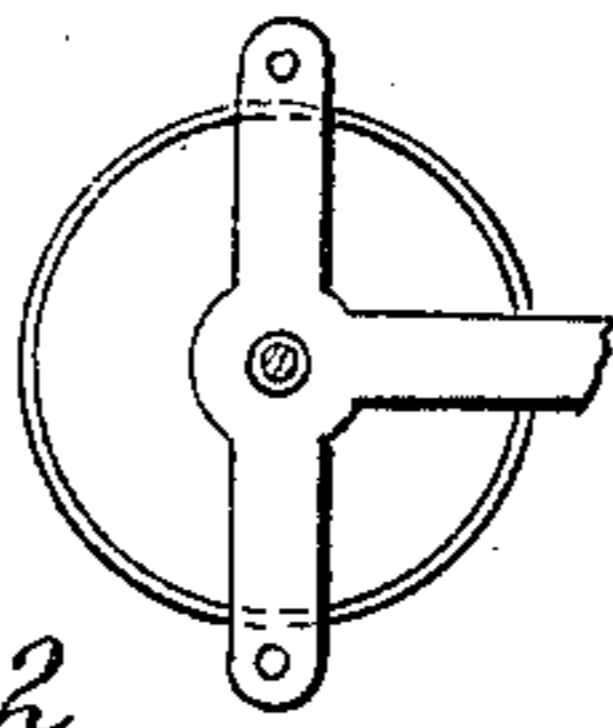


Fig. 2.

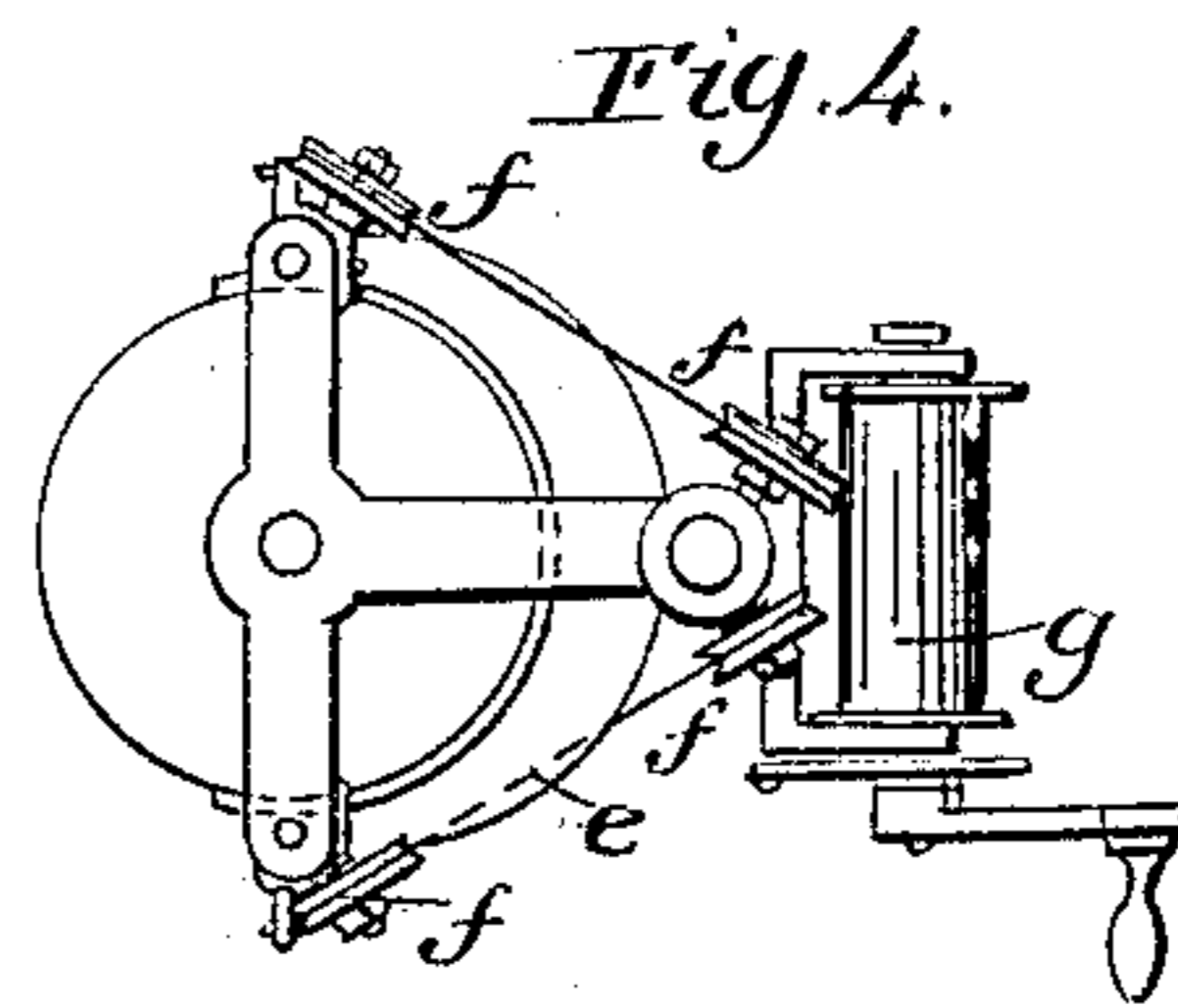


Fig. 4.

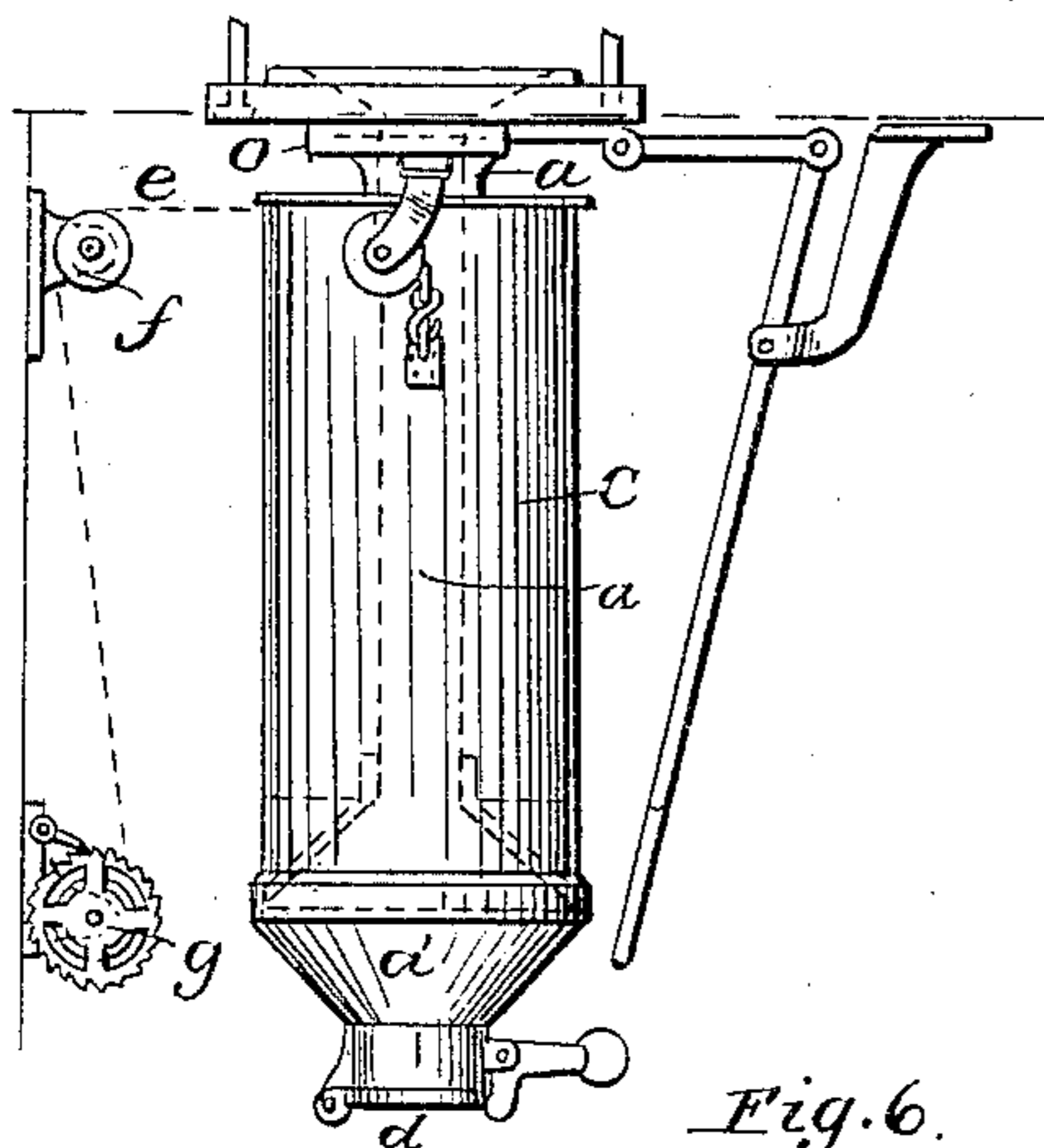


Fig. 6.

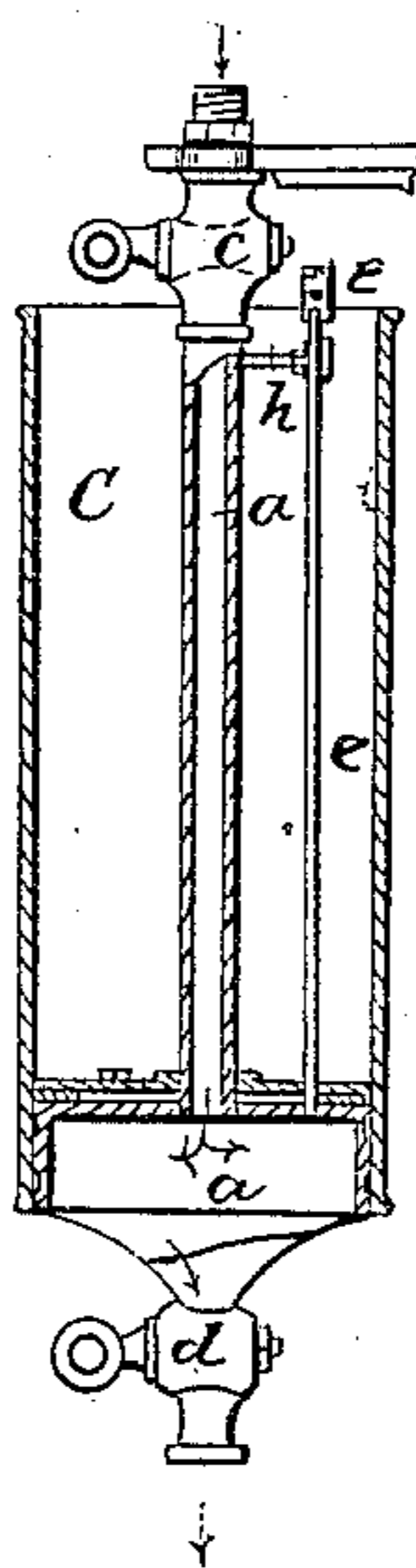


Fig. 3.

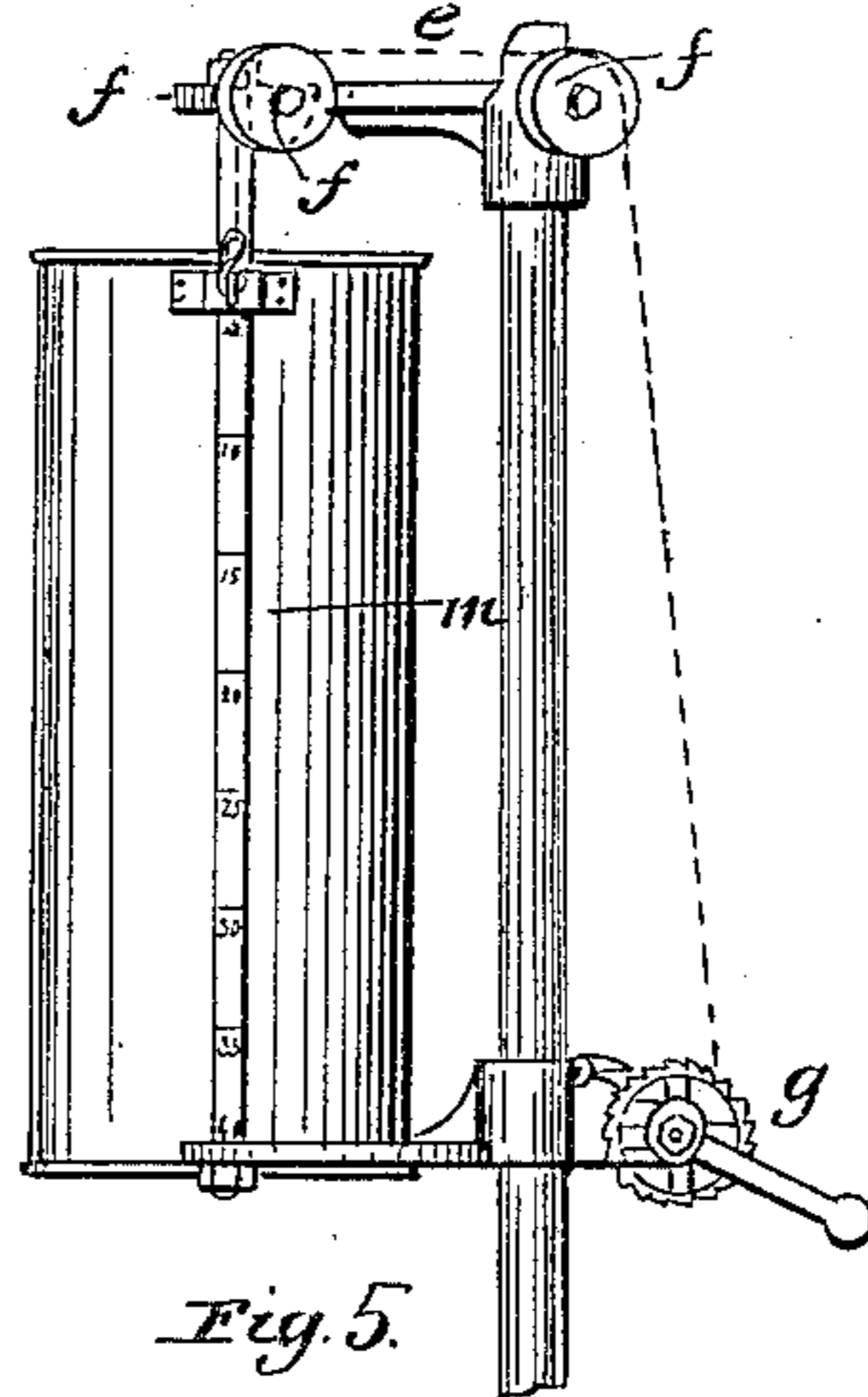


Fig. 5.

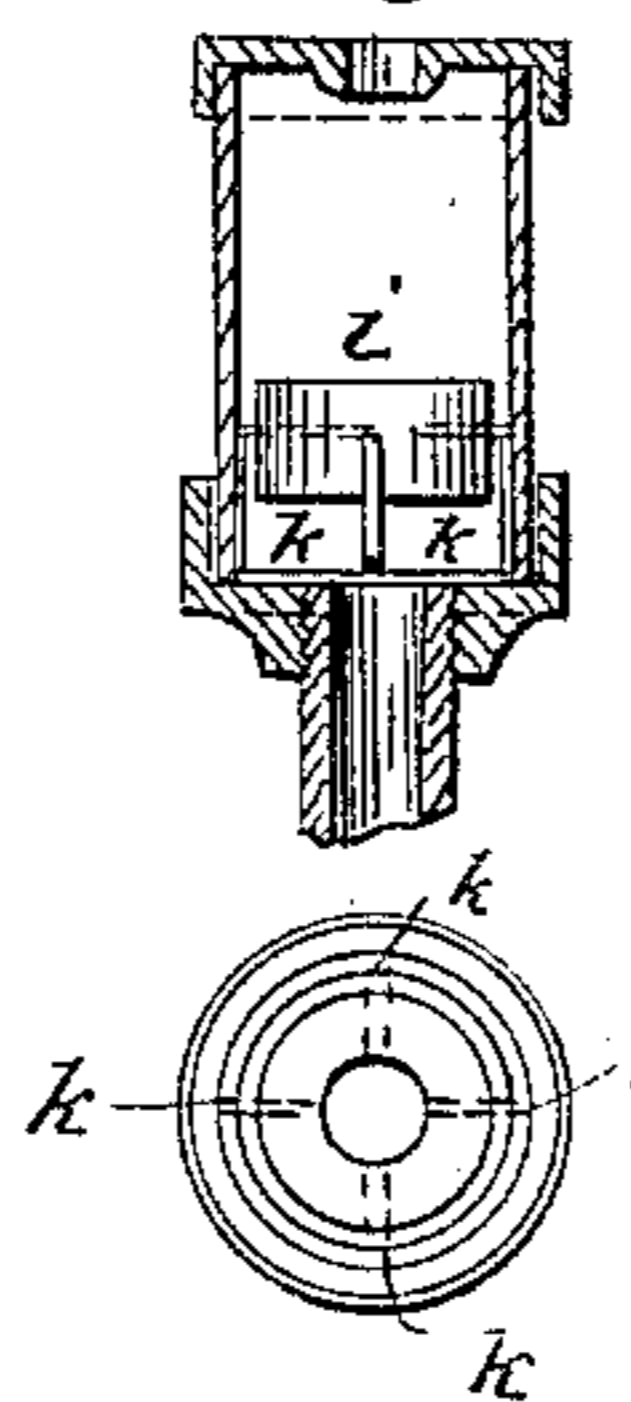
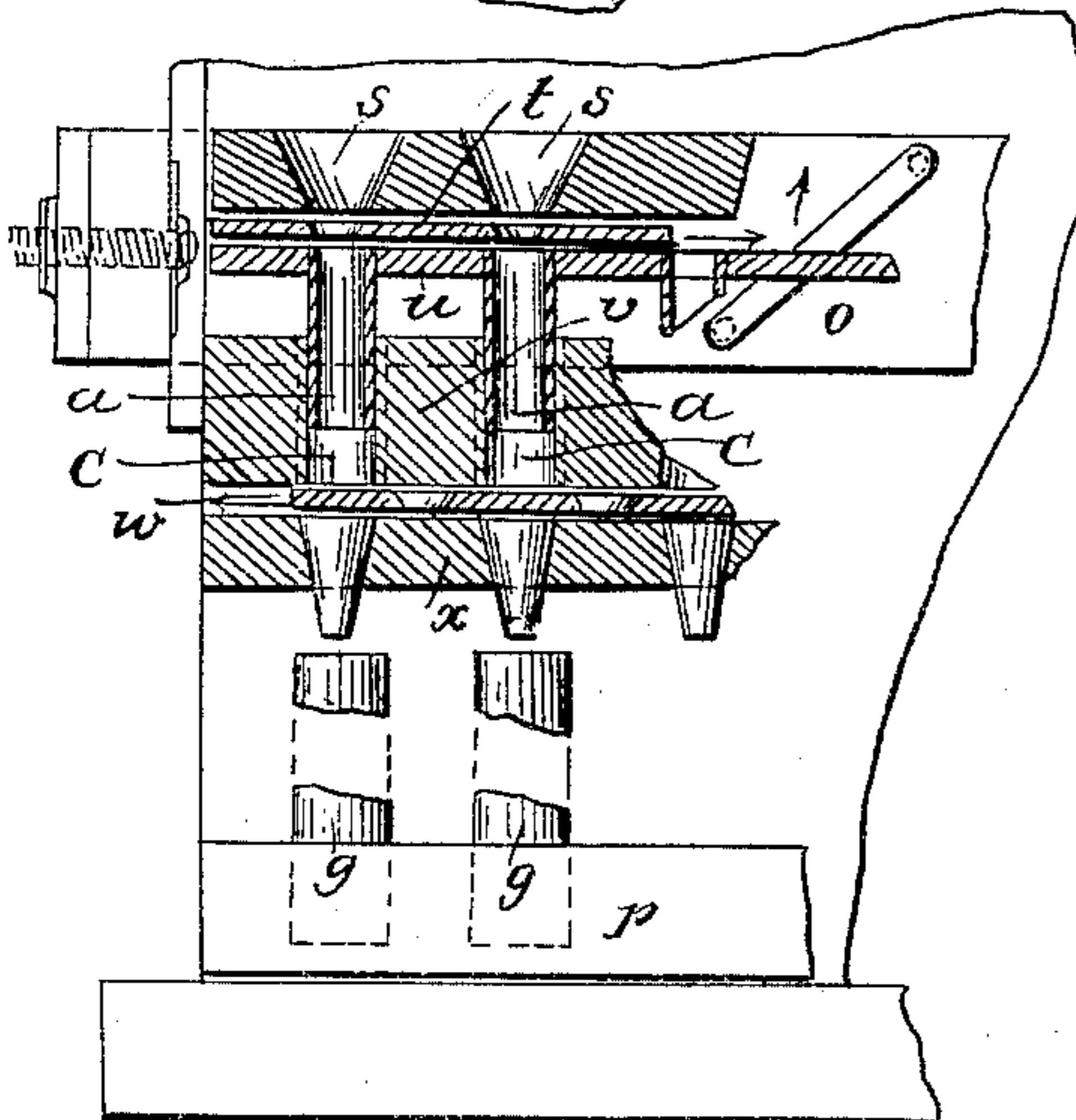


Fig. 3.

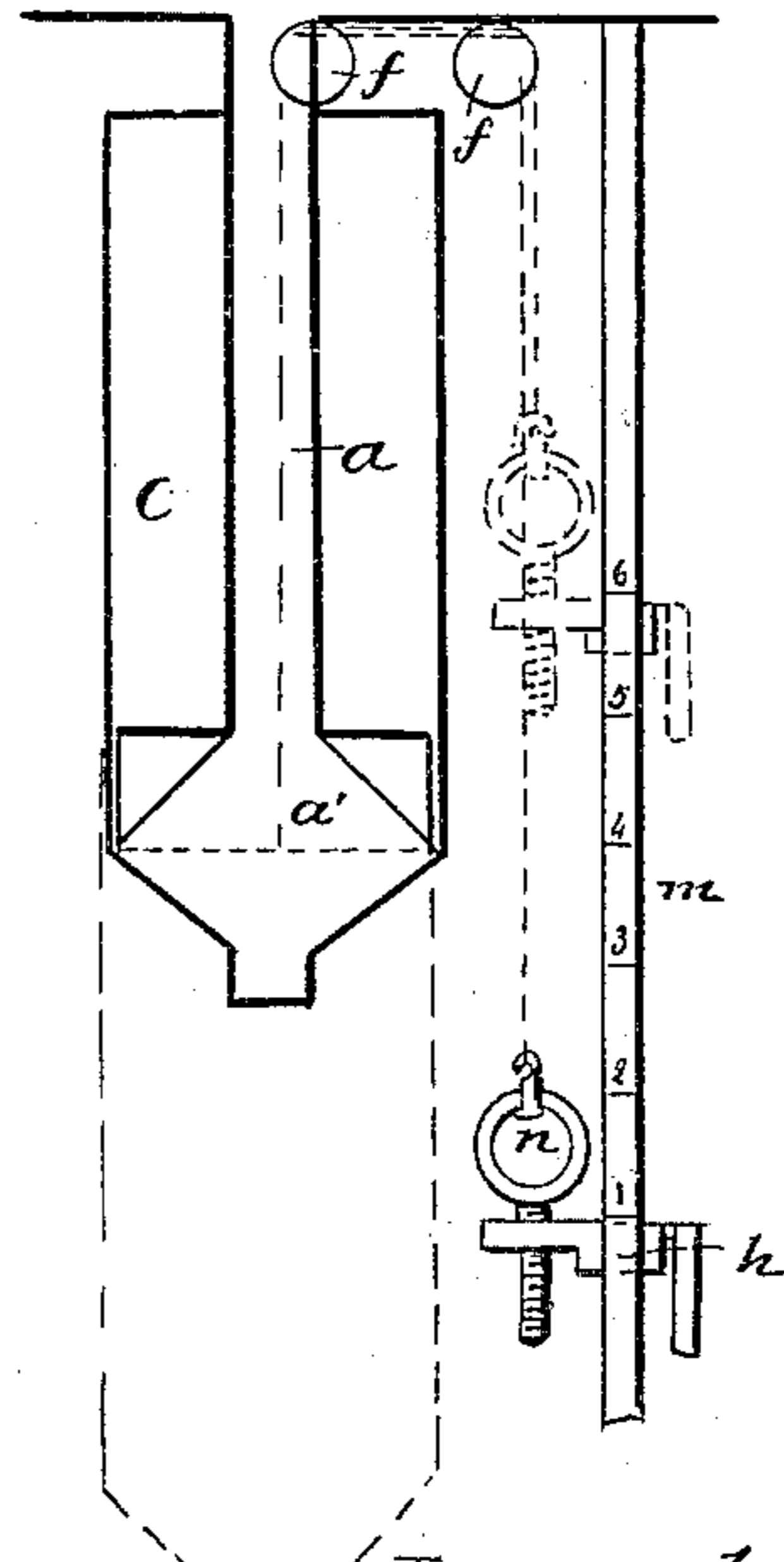


Fig. 5.

Witnesses:  
Louis Reinken  
Robert Kautz

Inventor:  
Henry Kraut

# UNITED STATES PATENT OFFICE.

HENRY KRAUT, OF ST. LOUIS, MISSOURI.

## IMPROVEMENT IN ADJUSTABLE MEASURES.

Specification forming part of Letters Patent No. 58,838, dated October 16, 1866.

*To all whom it may concern:*

Be it known that I, HENRY KRAUT, of St. Louis, county of St. Louis, in the State of Missouri, have invented a new and Improved Mode of Constructing Adjustable Measures; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the combination of a receiving-cylinder, C, and a hollow measuring-piston, A, either of them movable and adjustable, so that by the drawing out of the piston A or lowering of cylinder C the space for the substance to be measured can be extended in a desired proportion.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a metallic or other cylinder, C, Figures 1, 2, 4, 5, with a funnel-shaped end provided with an outlet valve or cock, *d*. I insert in the same a hollow piston, A, provided on its top with an inlet-slide, *c*, Fig. 1, or cock *c*, Fig. 2, and at the lower end with an extension, *a'*, which closely fits the cylinder C, and which, in those of my apparatus wherewith liquids shall be measured, is provided with any of the known tight packings. The inlet-slide *c*, Fig. 1, or cock *c*, Fig. 2, are opened and closed in any of the already known manners.

I further provide the receiving-cylinder C with an apparatus for lowering and raising, *f i*, with ropes or chains passing over rollers *f f* to a notch-wheel, *g*, Fig. 1, or by means of a sliding coulisse, *h*, on an upright shaft, *m*, Fig. 5, to which, for producing an exact measure, an adjusting-screw, *n*, may be attached.

The application of my invention is as follows, to wit: The measuring-piston A, when resting with its lower end on valve or cock *d*, contains a certain quantity—say, for instance,

one bushel of grain or five gallons of liquid substance. I shut the exit valve or cock *d* and open the inlet slide or cock *c*, whereupon the grain or liquid will run into and fill up the space inside of the piston A. When filled I shut up the inlet slide or cock *c* and open the exit valve or cock *d*, whereupon the contents of the piston A will empty into the receptacles kept ready for filling.

If two bushels of grain or ten gallons of liquid shall be measured with the same apparatus, I lower the cylinder *b* in a manner, as stated above, so that between valve or cock *d* and the lower end of piston A there is a room left which will hold exactly one bushel or five gallons, as the case may be. If the apparatus is arranged in that way I can measure every time exactly two bushels or ten gallons at once. By further lowering the cylinder C, I can increase the room for the quantity to be measured at once.

It is obvious that scales have to be provided showing the exact position of the receiving-cylinder when containing the quantities to be measured, as will be seen in Fig. 4 and Fig. 5.

The advantages of my adjustable measures over the old telescopic measures are that a smaller space is needed for the same; that they can be adjusted quicker and with the utmost accuracy, and that by few movements several measures can be adjusted at the same time.

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

The combination of the movable and adjustable receiving-cylinder C and hollow measuring-piston A.

HENRY KRAUT.

Witnesses:

LOUIS REINKEN,  
ROBERT ROENTGERRY.