(Model.)

W. T. BELL.

MEASURE FOR GRAIN SPOUTS.

No. 280,120. Patented June 26, 1883.

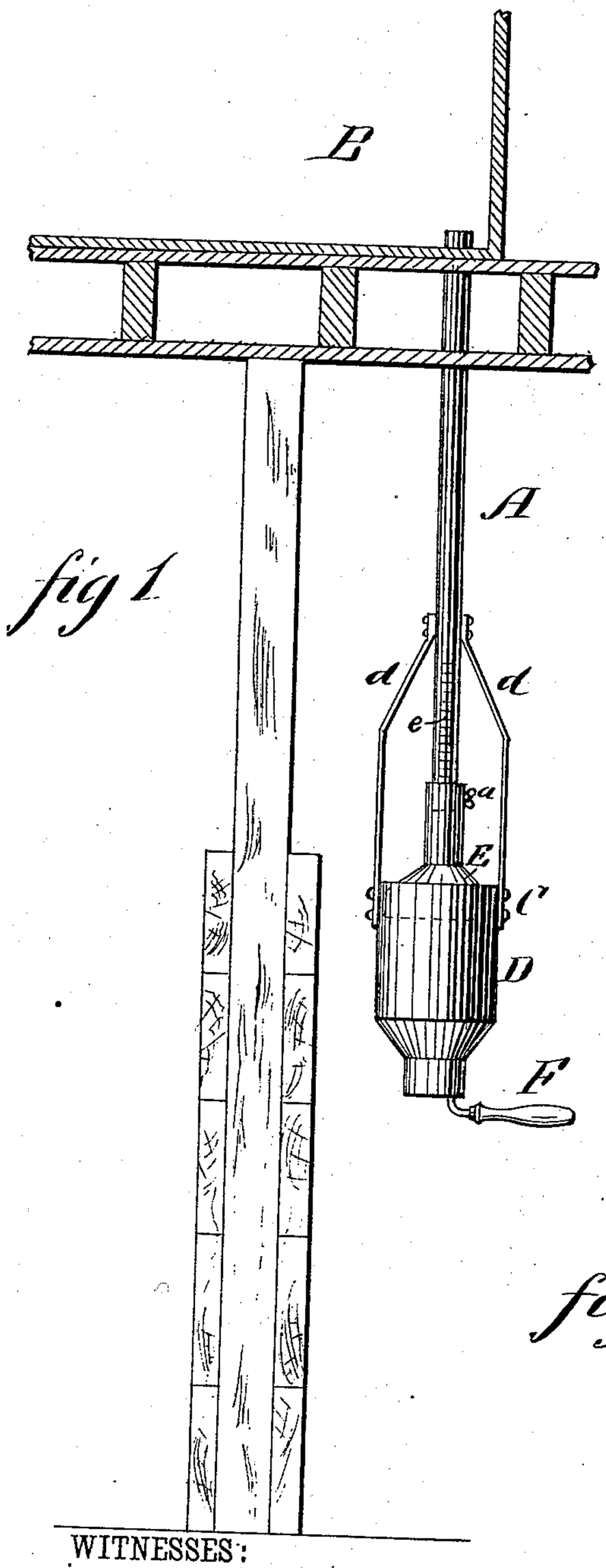

fig 1

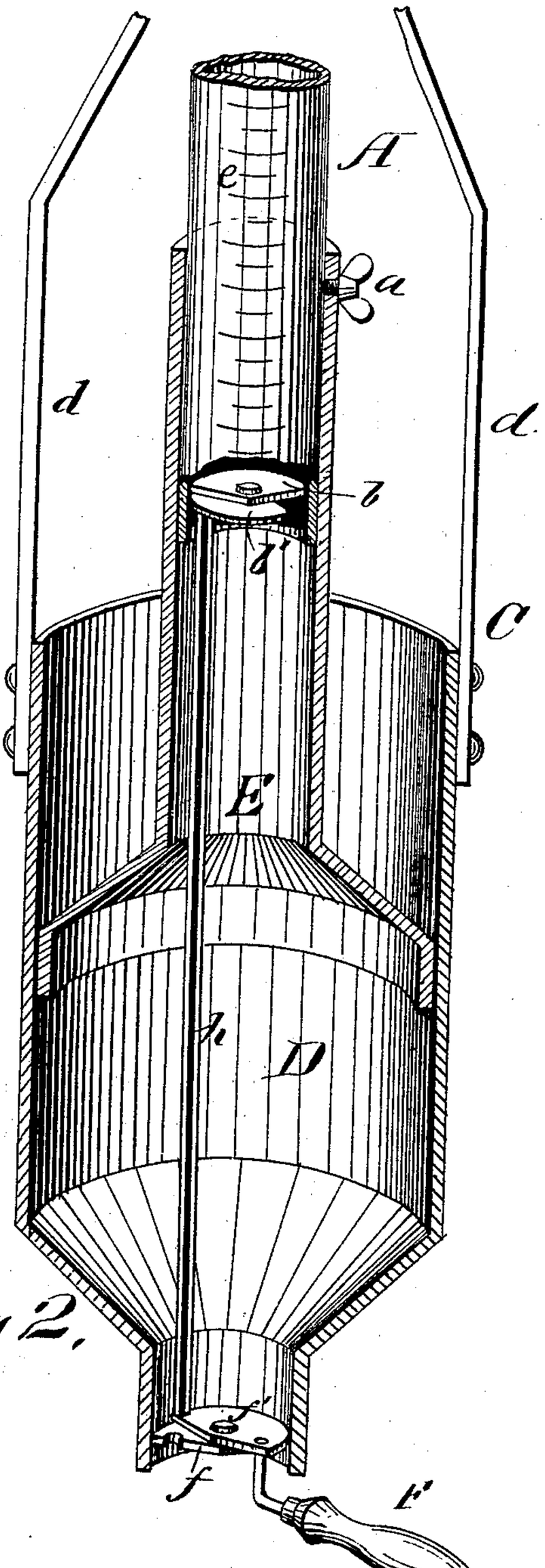

fig 2.

WITNESSES:

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WALTER T. BELL, OF NEW ROCHELLE, NEW YORK.

MEASURE FOR GRAIN-SPOUTS.

SPECIFICATION forming part of Letters Patent No. 280,120, dated June 26, 1883.

Application filed February 14, 1883. (Model.)

To all whom it may concern:

Be it known that I, WALTER T. BELL, of New Rochelle, in the county of Westchester and State of New York, have invented a new and Improved Measure for Grain-Spouts, of which the following is a full, clear, and exact description.

The object of this invention is to provide a grain-measure adapted to be attached to grain-spouts in horse barns and stables, whereby the grain or feed coming from a bin above may be conveniently measured into the exact quantities desired for feeding.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of my new and improved grain-measure as it appears when applied to a grain-spout in a barn or stable ready for use, and Fig. 2 is a vertical sectional perspective view of the measure.

A represents the grain-spout leading down from the bin B, and C represents my new and improved measure attached thereto. The measure is made of sheet metal, and is by preference composed of the main lower part, D, which is attached rigidly to the spout A by the arms *d d*, and the upper part, E, which fits in the lower part, D, and is placed loosely upon the lower end of the spout A; and this upper part is by preference made movable up and down upon the spout A, for increasing or diminishing the capacity of the measure, and is adapted to be locked at any desired position upon the spout by the set-screw *a*.

b is a semicircular plate secured in the lower end of the spout A, and *f* is a similar plate secured in the lower end of the main part D of the measure, as shown in Fig. 2.

To the plate *b* is pivoted the semicircular cut-off plate *b'*, and upon the plate *f* is pivoted the semicircular cut-off plate *f'*. These two cut-off plates *b'* and *f'* are attached to the rod *h*, but in opposite relation to each other—that is, in such relation to each other that the plate *b'* will close the spout A when the measure is opened by the plate *f'*, and vice versa, thus cutting off the supply of grain to the measure at the time of emptying the measure, and admitting the grain again to the measure at the time of closing it at its lower end. The cut-off plates are both operated by the single handle F, attached to the cut-off plate *f'*, as shown clearly in the drawings.

For increasing or diminishing the capacity of the measure according to the quantity desired for a single feed, it is only necessary to loosen the set-screw *a* and raise or lower the upper part, E; and the spout A has the graduation-marks *e*, formed upon it, so that the part E may be set accurately for any desired quantity.

Constructed in this manner, the device is very convenient for feeding grain to horses and other animals in exact quantities, and is practical and cheap, and quickly and easily operated.

Instead of making the measure C in two separate movable parts, it will be understood that the measure might be made a continuous holder to contain a stated quantity and not depart from the spirit of my invention.

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

1. The spout A and main lower part, D, connected by arms *d d*, in combination with the lower part, E, arranged loosely upon the lower end of spout A and fitting adjustably within the part D, as shown and described.

2. A grain measure or holder adapted to be attached to the spout A, in combination with the fixed plates *b* and *f* and oppositely-arranged pivoted cut-off plates *b'* and *f'*, substantially as and for the purposes set forth.

3. The combination, with the spout A and part D, of the plates *b f*, carrying the pivoted cut-offs *b' f'*, reversely attached to the rod *h*, as and for the purpose specified.

4. The grain-measure herein shown and described, consisting of the main holder D, attached to the spout A by the arms *d d*, and the adjustable upper part, E, in combination with the plates *b* and *f*, secured in the spout A and holder D, respectively, and the oppositely-arranged pivoted cut-off plates *b' f'*, at-

tached to the rod *h*, substantially as and for the purposes set forth.

5. In a grain-measure, the spout A, provided with the semicircular plate *b*, and the holder D, provided with the semicircular plate *f*, in combination with the pivoted semicircular cut-off plates *b'* and *f'*, attached to the rod *h*, on opposite sides thereof, the plate *f'* having the handle F attached thereto, substantially as and for the purposes set forth.

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Witnesses:

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