

J. C. WALKER.

Grain Meter.

No. 68,472.

Patented Sept. 3, 1867.

FIG. 1

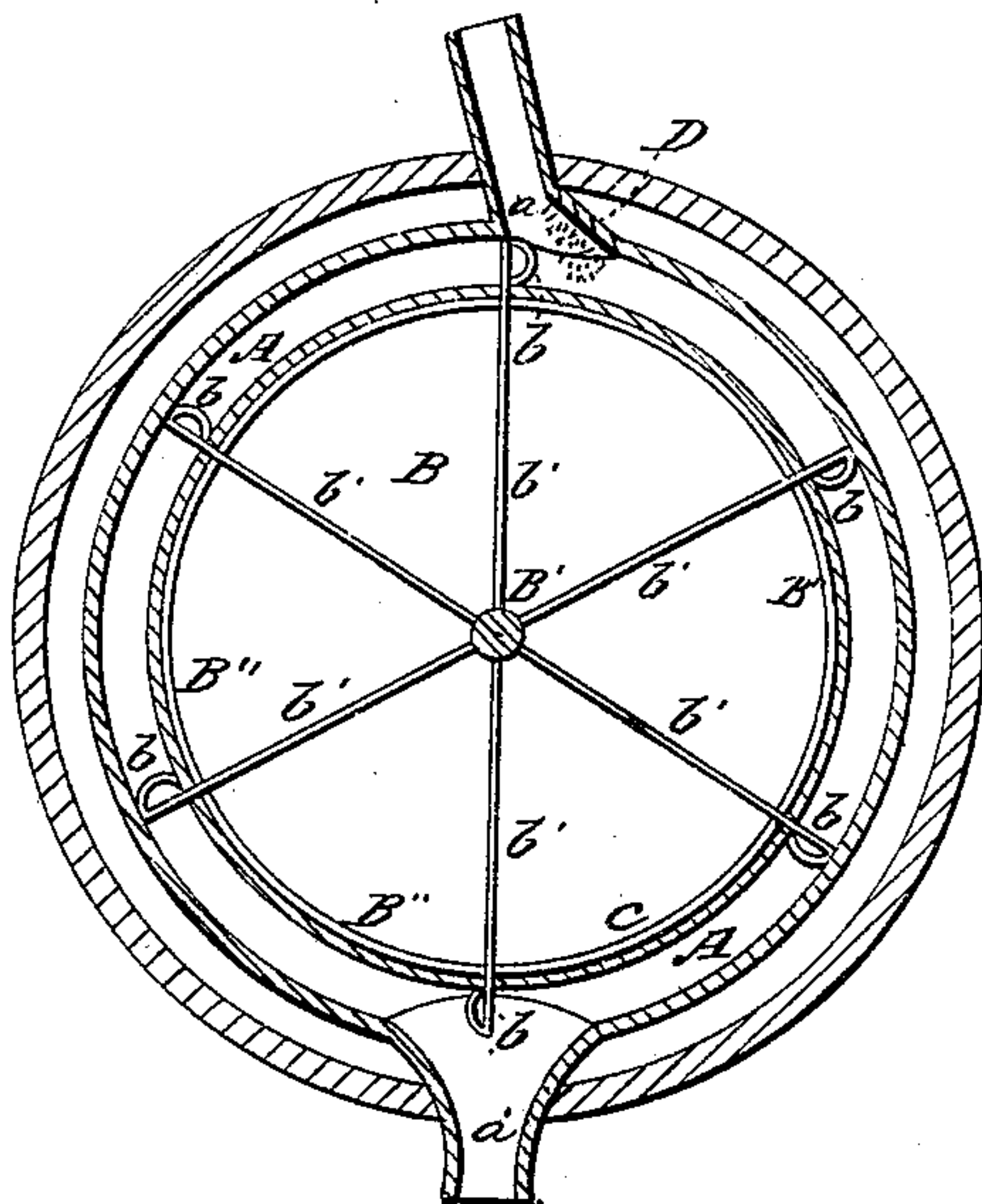


FIG. 2

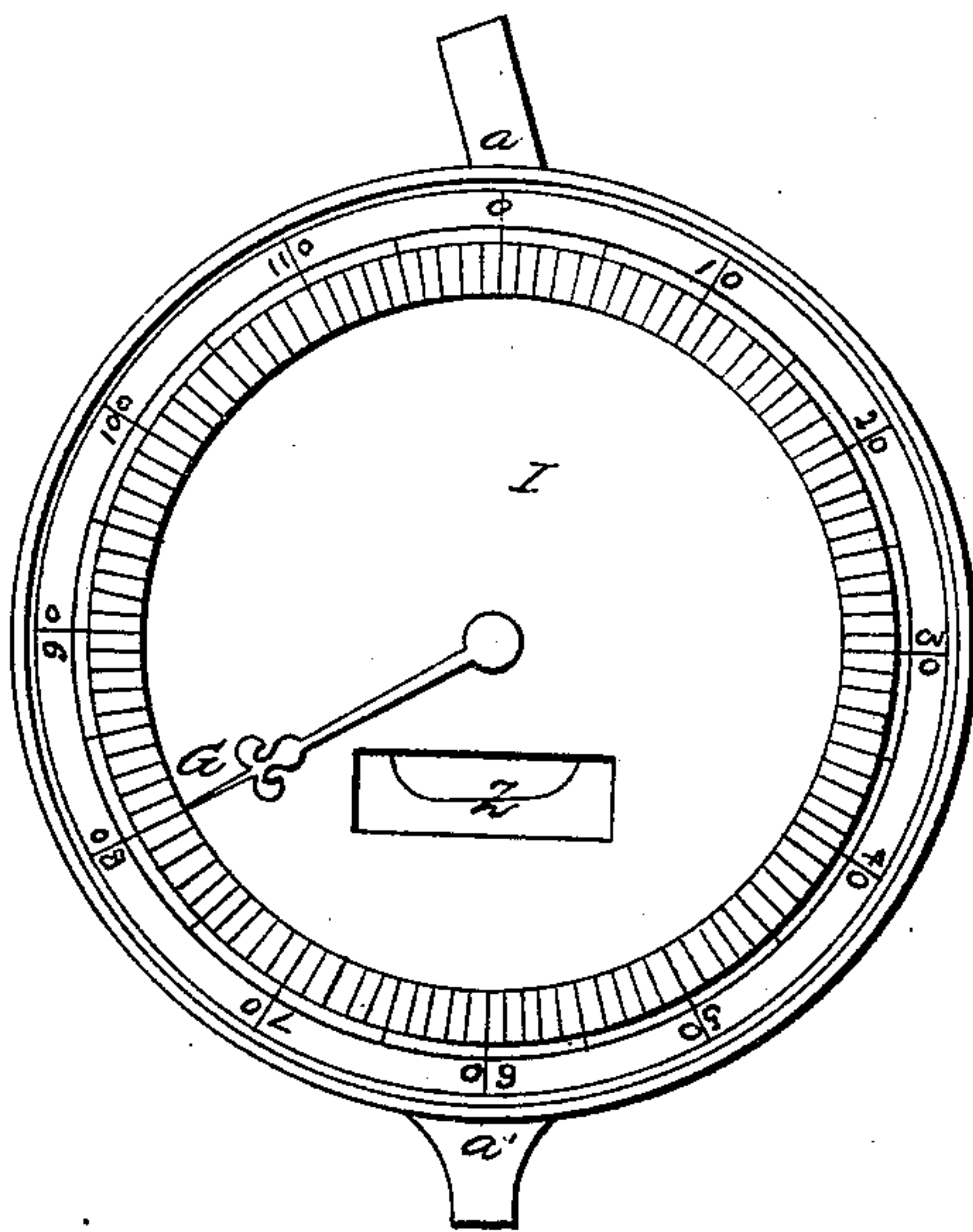


FIG. 3



WITNESSES:

Chas. A. Ritt
John W. Kenyon

INVENTOR:

James C. Walker
By Munn & Co.
Attorneys.

United States Patent Office.

JAMES C. WALKER, OF WACO VILLAGE, TEXAS.

Letters Patent No. 68,472, dated September 3, 1867.

IMPROVED GRAIN-METER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES C. WALKER, of Waco Village, in the county of McLennan, and State of Texas, have invented a new and improved Grain-Meter; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a vertical section of my invention.

Figure 2 is a front elevation of the same.

Figure 3 is a cross-section of the tube A.

Similar letters of reference indicate corresponding parts in the several figures.

In this invention the grain is poured into a circular chute, where, in falling, it rotates a wheel, the revolutions of which, recorded by an indicator, mark the quantity of grain.

In order that others skilled in the art to which my invention appertains may be enabled to make and use the same, I will proceed to describe it in detail.

In the drawings, A represents an annular chute; through which the grain is poured from the receiving pipe *a* to *a'*, the discharge-port. Within this chute move the buckets *b b* of a wheel B, the wheel-shaft being shown at B' and the spokes at *b' b'*. The spokes are provided with a guard or rim, B'', fitting closely to the inner wall of the chute, and filling the slot *e* in order to prevent the escape of the grain. C is a brush attached to the wall of the chute A, where it expands to receive the lower extremity of the supply pipe *a*, and operating against the revolving buckets *b b*, its office being to clean them and prevent the lodging of any kernels between the buckets and the walls of the chute. An indicating apparatus, G, is connected with and operated by the revolving shaft B', and marks accurately the quantity of grain passed through the chute.

In constructing this meter the buckets *b b* should be made to fit closely and yet move freely in the chute A. The brush C is so fixed to the wall of the chute as to be easily detachable at any time. To effect this a portion, D, of the wall of the tube at that point may be made detachable, and provided with holes in which the bristles may be fastened so as to project into the chute, as shown in the drawings. When in use the instrument is intended to be placed so that the line I on the dial shall be in a vertical position. A spirit-level, L, may be attached, if desired, in order to aid in ascertaining the proper position of the instrument.

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

The combination and arrangement of the wheel B, annular chute A, and brush C, in a grain-meter, substantially as and for the purpose specified.

To the above specification of my improvement I have signed my hand this 11th day of July, 1867.

JAS. C. WALKER.

Witnesses:

CHAS. A. PETTIT,

SOLON C. KEMON.