

G. F. SPENCER.
REGISTER.

No. 170,200.

Patented Nov. 23, 1875.

Fig. 1.

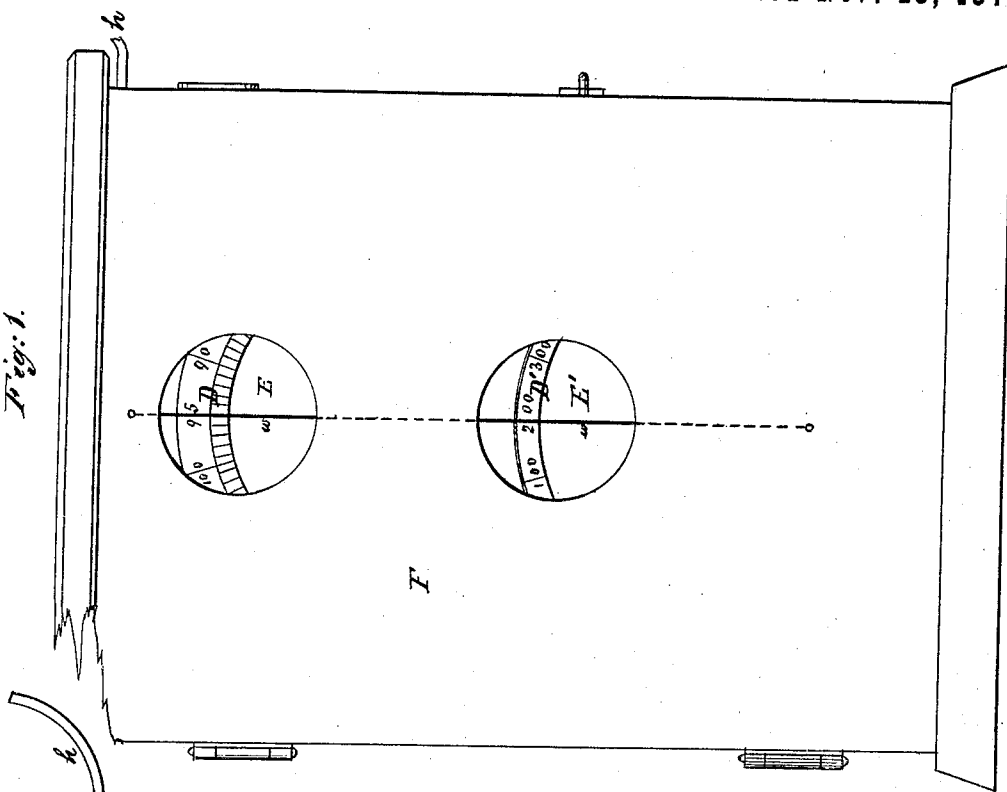
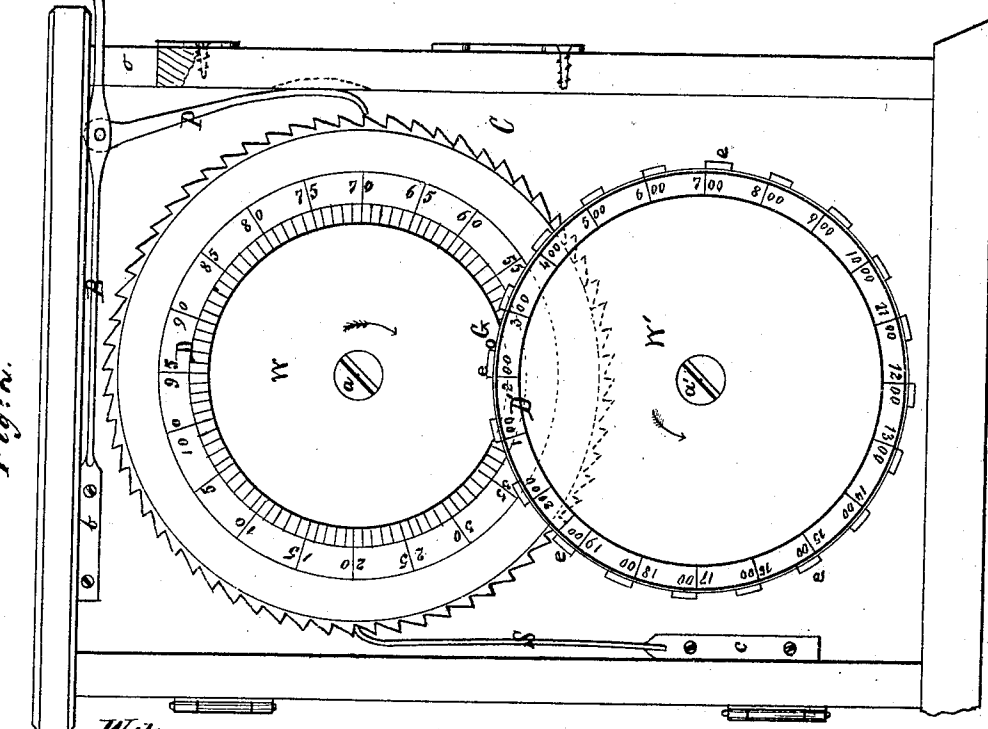


Fig. 2.



Witnesses:
Henry Eichling.
Ben. E. Clark

Inventor:
George F. Spencer
By *Rich. Mich*
His Atty.

UNITED STATES PATENT OFFICE.

GEORGE F. SPENCER, OF FRANCESVILLE, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN F. YARNELL, OF SAME PLACE.

IMPROVEMENT IN REGISTERS.

Specification forming part of Letters Patent No. **170,200**, dated November 23, 1875; application filed July 2, 1875.

To all whom it may concern:

Be it known that I, GEORGE F. SPENCER, of Francesville, Pulaski county, and State of Indiana, have invented an Improved Grain-Register, of which the following is a specification, reference being had to the accompanying drawings forming part hereof.

My invention relates to a device for registering the measuring of grain; and consists in the combination of a ratchet-wheel bearing upon its face a circular index-dial, which has one hundred equal spaces for units marked upon it and operated to revolve with an intermitting motion by a pawl pivoted to a spring bar or lever provided with a handle or thumb-piece, and controlled in its revolution and movement by a detent, and having a pin projecting from its face and arranged to engage with cogs or teeth set upon the rim of, and thus revolve, a second index-dial wheel, having equal spaces marked upon its face, all arranged within a suitably-constructed box or case, the front or door of which is provided with two openings in line vertically with each other, and preferably glazed, so situated as to show a part of the upper portion of each of the dials, when the door is closed, and across which, on the line of their perpendicular diameters, is extended a fine wire or thread, whereby, by a single pressure upon the thumb-piece of the spring bar or lever, the first dial is revolved the distance of one of the unit-spaces thereon, and whereby, when the first dial has been thus entirely revolved through the distance of all its unit-spaces, the second dial will be revolved the distance of one of the spaces marked upon it.

Figure 1 is a front elevation of my grain-registering device; and Fig. 2 is a similar view of the same with the front or door removed, and showing the interior mechanism.

W is a ratchet-wheel mounted on an axle, *a*, in the case C, as shown, and bears upon its face a circular dial, D, which has one hundred equal spaces marked upon it, as shown, the lines indicating every fifth unit-space being extended outward somewhat, and numbered from 5 to 100 with numerals, as shown. B is a spring bar or lever secured at the top of the case at *b*, and extending outside the case

through the opening *o*, and is provided with the thumb-piece or handle *h*, and has pivoted to it the pawl P, which depends therefrom and engages with the ratchet upon the wheel W at one side thereof, as shown. S is a detent secured to the case at *c*, and extends upward and engages with the ratchet on the wheel W in an opposite direction to the engagement of the pawl P, as shown. G is a pin set in the face of the dial D on a diameter-line thereof drawn through the line indicating the one-hundredth unit-space and opposite thereto, as shown, and arranged to engage with the cogs *e* on the rim of a second dial-wheel, W', which is mounted on an axle, *a'*, and overlaps the dial-wheel W, as shown. The wheel W' bears upon its face a dial, D', having as many equal spaces marked upon it as there are cogs or teeth upon the rim, and numbered with numerals from one hundred upward, as shown. The door or front F of the case has two circular openings, E and E', in line vertically with each other, as shown, preferably glazed, the opening E permitting a part of the upper portion of the dial D to be seen, and the opening E' permitting a similar part of the dial D' to be seen when the door is closed. *w* is a fine wire or thread extended across the openings E and E' on the line of their perpendicular diameters, as shown.

The teeth upon the ratchet-wheel W should be made of such a length that when the wheel is revolved by the pawl P the space of one of the teeth, the dial D will indicate, by means of the wire *w*, the movement through the distance of exactly one of its unit-spaces.

Now, it is evident, it being intended in using my registering device to press once upon the handle *h* for each bushel or other measure of grain measured, that the exact amount or quantity of grain measured will at any and all times be precisely shown upon the dials, the dial D indicating the units, and the dial D' indicating the hundreds.

I am aware that the several parts and devices composing the combination which constitutes my register are not new, but are common in many mechanical constructions, and I do not claim any one of said devices separately; nor the combination of any less than all

of the parts shown—that is to say, the dial-wheels, the operating ratchet-lever, with its handle extending outside of the inclosing-case, and the detent, all contained in a case, and thus made portable in convenient form, with the door having the dial-openings and its pointer-wire.

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

The combination, as a device for registering the measuring of grain, of a ratchet-wheel,

W, bearing the dial D, and provided with the pin G, the spring-bar B, with its handle *h*, the pawl P, the detent S, the wheel W', with the cogs *e* upon its rim and bearing the dial D', all contained in the case C, having the opening *o*, and the openings E and E', provided with the wire *w*, in the door F, as described.

GEORGE F. SPENCER.

Witnesses:

C. H. MILLER,

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