

(No Model.)

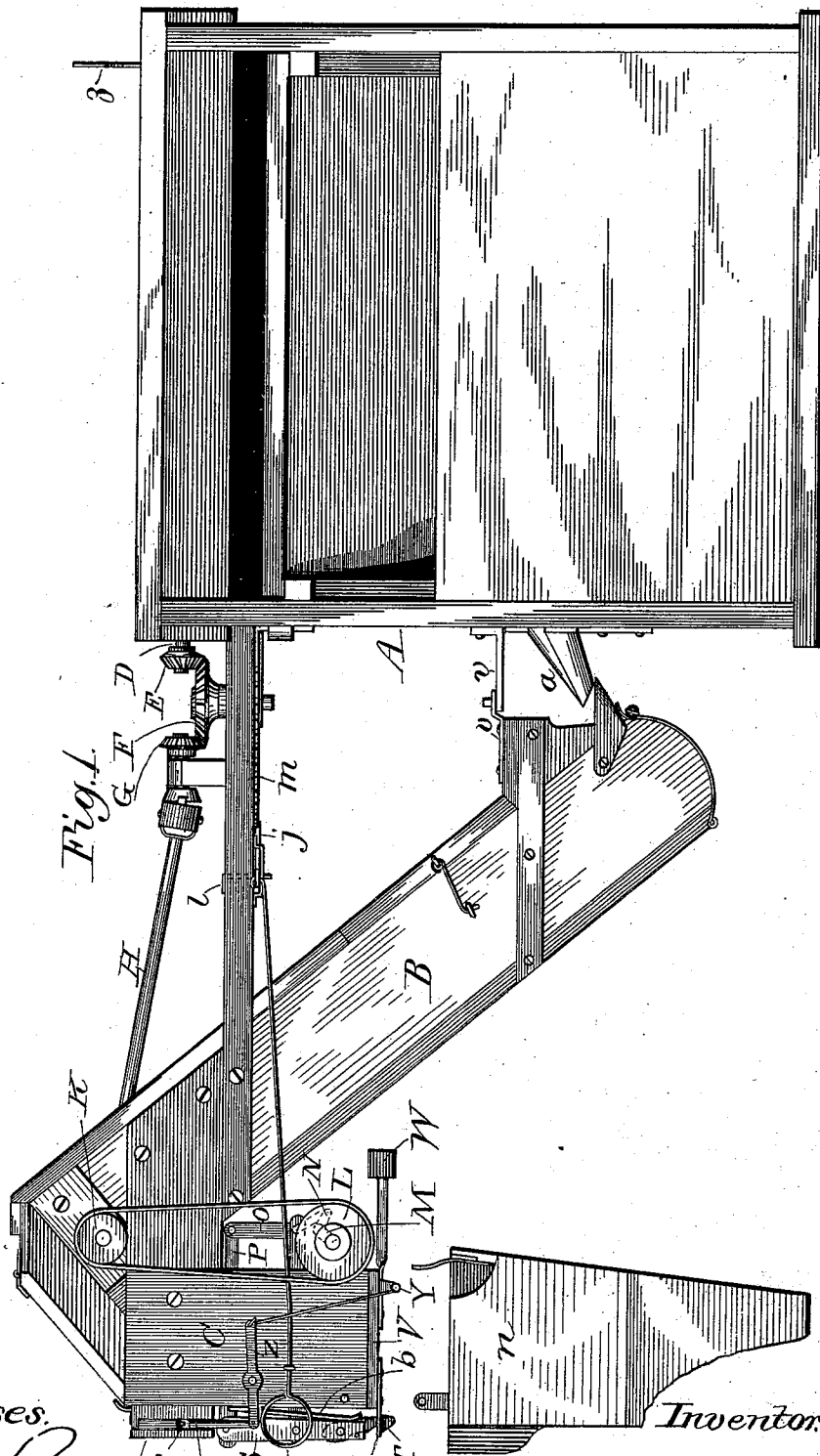
3 Sheets—Sheet 1.

J. G. WOLFE.

AUTOMATIC GRAIN METER AND REGISTER.

No. 377,843.

Patented Feb. 14, 1888.



Witnesses.
Frank E. Brauwer.
H. W. Slawson.

Inventor.
J. Gregory Wolfe.

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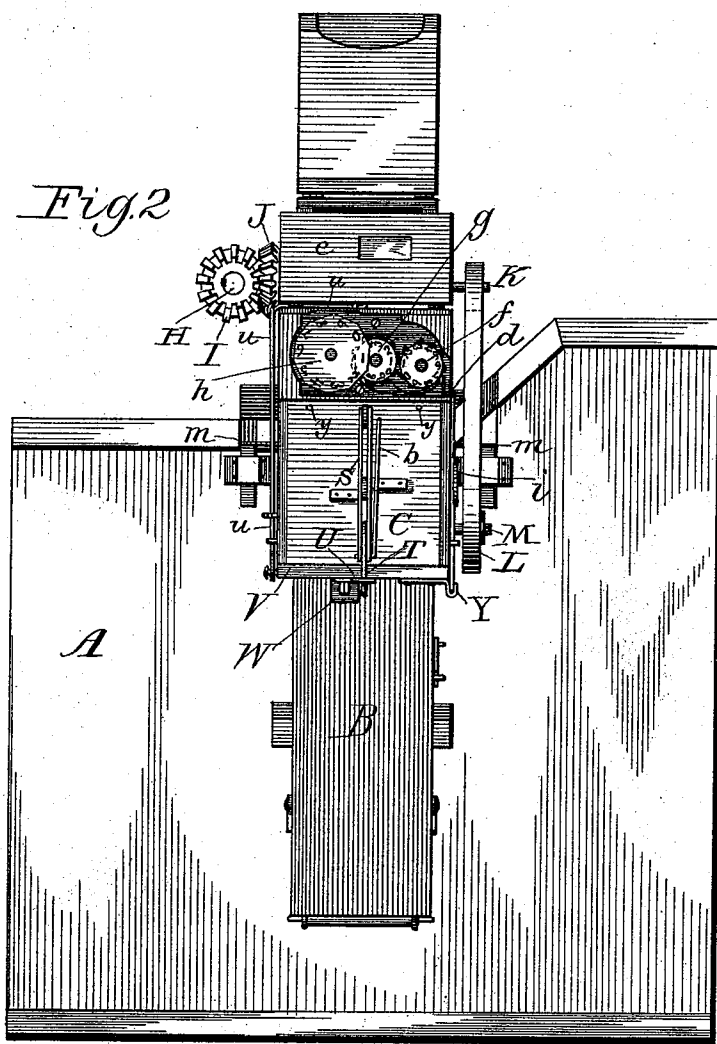
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Witnesses
Frank E. Brainard.
H. W. Stearns.

Inventor,
J. Gregory Wolfe.

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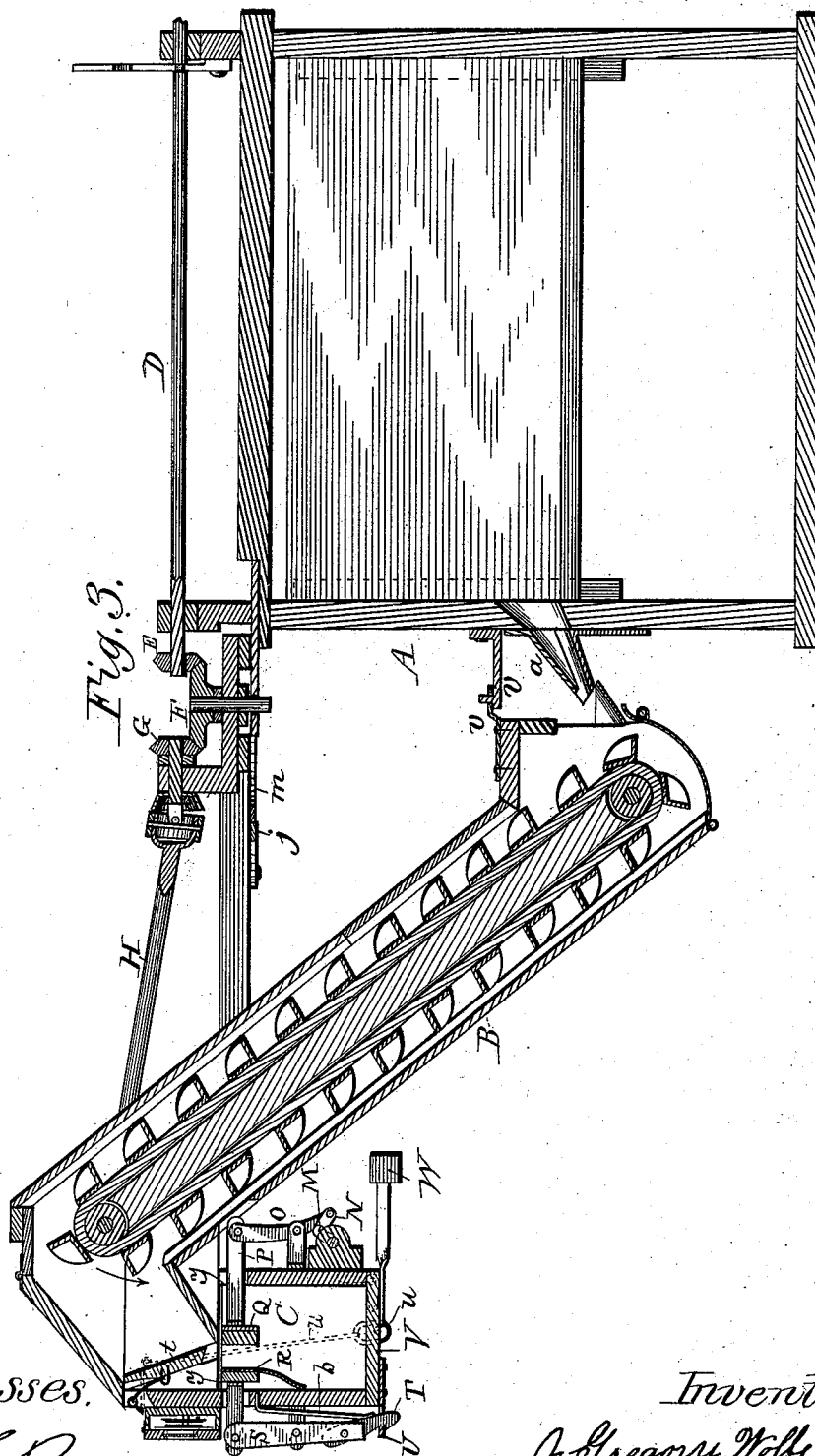
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H. M. S. Carr

Inventor.

J. Gregory Wolfe

UNITED STATES PATENT OFFICE.

J. GREGORY WOLFE, OF MELVILLE, IOWA.

AUTOMATIC GRAIN METER AND REGISTER.

SPECIFICATION forming part of Letters Patent No. 377,843, dated February 14, 1888.

Application filed November 2, 1887. Serial No. 254,122. (No model.)

To all whom it may concern:

Be it known that I, J. GREGORY WOLFE, a citizen of the United States, residing at Melville township, in the county of Audubon and State of Iowa, have invented a new and useful Grain Meter and Register, of which the following is a specification.

My invention relates to improvements in grain meters and registers by the use of which thrashing-machines and corn-shellers can deliver the thrashed or shelled grain automatically measured and registered in wagons or bags on either side of the machine; and the objects of my improvements are, first, to save the manual labor necessary to do the work, and, second, to avoid having the grain run into half-bushels by the side of the machine, and thereby be not so liable to get chaff and straw in the cleaned grain. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the elevator and measurer. Fig. 2 is a front view of the measurer and register with the top of the elevator and register open. Fig. 3 is an inside view of the elevator and measurer.

Similar letters refer to similar parts throughout the several views.

A, Fig. 1, represents a section of a thrashing-machine, showing how the elevator B and measurer C are hinged to it.

D is a shaft which runs through the thrashing-machine, and is to be run by a belt from another shaft on the machine, and by means of its bevel-pinion E turns the bevel-wheel F, which turns the bevel-pinion G, and tumbling-rod H with its bevel-pinion I, and bevel-pinion J, Fig. 2, with its shaft and belt-wheel K. The belt-wheel K, by means of a belt, turns the belt-wheel L, which is attached to the crank-shaft M, and rod N to lever O, and bar P to sliding cross-head Q, Fig. 3.

When in operation, the grain from the thrasher A runs out at the spout *a* into the elevator B, which carries it to measurer C. When the measurer C is filled with grain up to the cross-heads Q and R, Fig. 3, the cross-head Q presses the grain against the cross-head R, which is attached to the lever S. The lever S depresses the spring *b*, which

causes the catch T to release the latch U. When the latch U is released, the weight of the grain causes the bottom of the measurer V, Fig. 1, to open and let the grain drop out. When the bottom V, Fig. 1, opens, the rod which is connected to it at Y, Fig. 1, and to the registering-lever Z, Fig. 1, operates the pawl *d*, Fig. 1, and the register *e*, Fig. 3.

The pawl *d*, Fig. 1, turns the register-wheel *f*, Fig. 2, which, when it gets once around, turns the ten-bushel wheel *g* one notch, and the ten-bushel wheel *g*, when it goes around once, turns the hundred-bushel wheel *h* one notch, as shown.

i, Fig. 1, is a wire, by means of which the dog *j* is released from the rack *m*, when the elevator may be turned to any desired angle.

l is a spring which keeps the dog *j* in its place.

n is a sacking attachment for use when required.

The weight W, Fig. 1, attached to the bottom of the measurer, closes up the bottom when empty.

t, Fig. 2, is a sliding board which shuts off the grain from going down in the measurer while the bottom is open, and as the bottom closes it slides up the cut-off board *t* by means of the wire *u*, attached to the bottom V, as shown in Fig. 2.

v v are hinges which allow the elevator to be turned to any desired angle.

The measurer and rack *m* and shaft D are adjustable to either side of the machine.

y y, Fig. 3, are the ends of sliding bars, on which the cross-heads Q and R slide.

z is a gear-rig, to let the shaft D and its pinion E in or out of gear.

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

A combined grain meter and register, in connection with a hinged elevator composed of the shaft D with pinion E, and wheel F with pinion G, and tumbling-rod H with pinions I and J, and belt-wheels K and L, in connection with the crank-shaft M and rod N and lever O, and bar P, with its cross-head Q, by means of which the grain is pressed against the cross-head R, and the bottom of the meter

is allowed to open for the purpose of letting
the grain drop out, and the registering-lever
Z, with its operating-rod Y, and ratchet *d*,
and registering-wheels *f*, *g*, and *h*, by means
5 of which the grain is made to register itself,
and the sliding board *t*, with its operating-rod
u, and hinged bottom V, with its attached

weight W, and movable rack *m*, with its dog
j and spring *l*, all constructed, arranged, and
operated substantially as above described.

J. GREGORY WOLFE.

Witnesses:

F. E. BRAINARD,

H. W. STEARN.