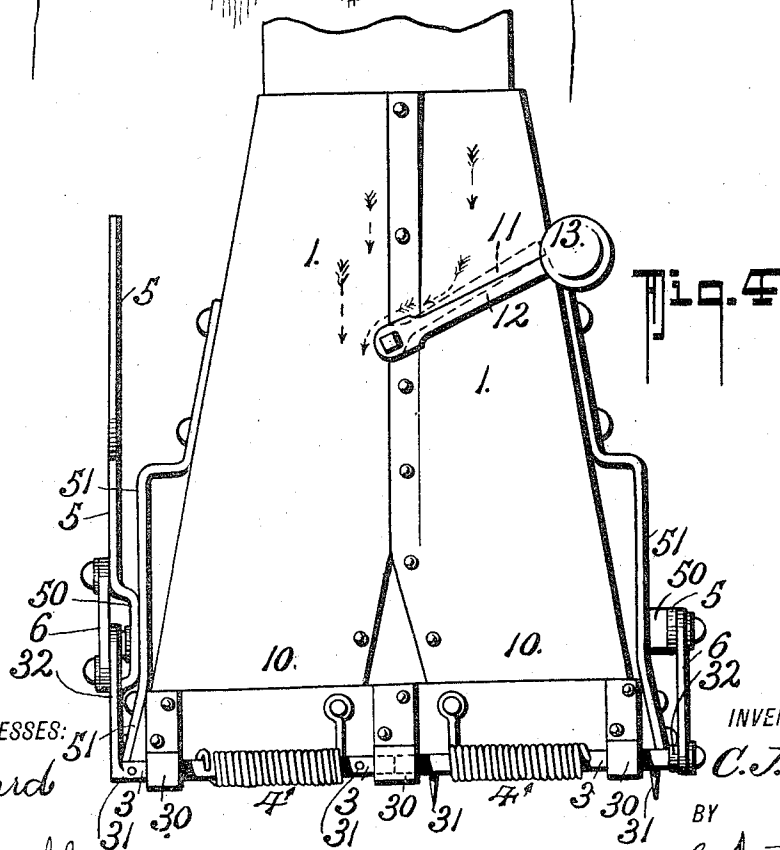
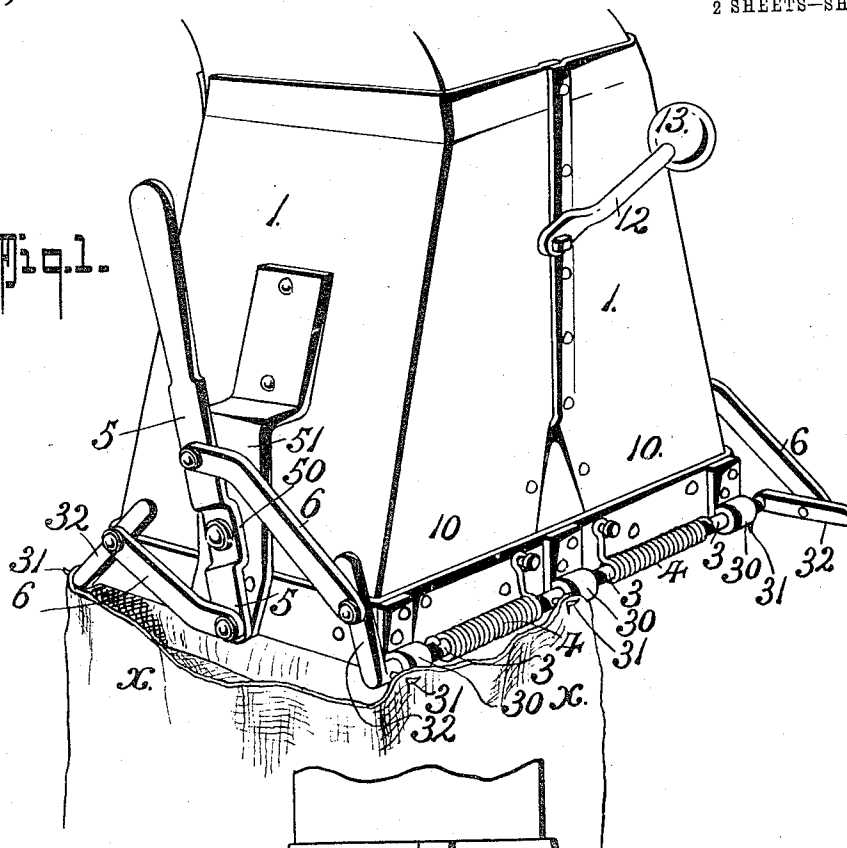


APPLICATION FILED SEPT. 5, 1911.

2 SHEETS—SHEET 1.

7-11



WITNESSES:

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R. Greenwell.

INVENTOR

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BY

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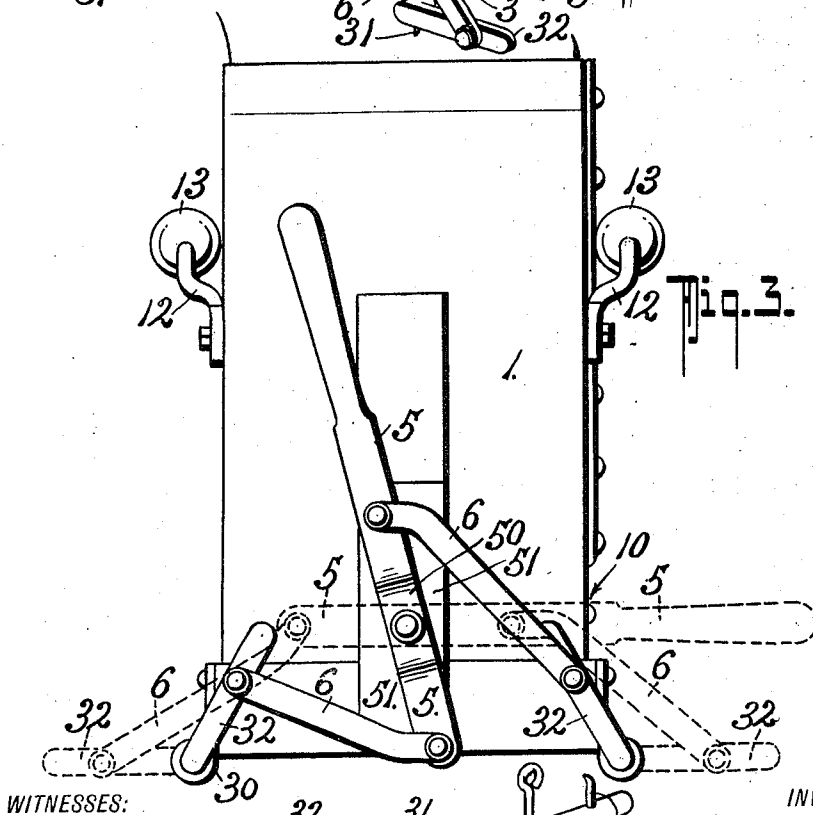
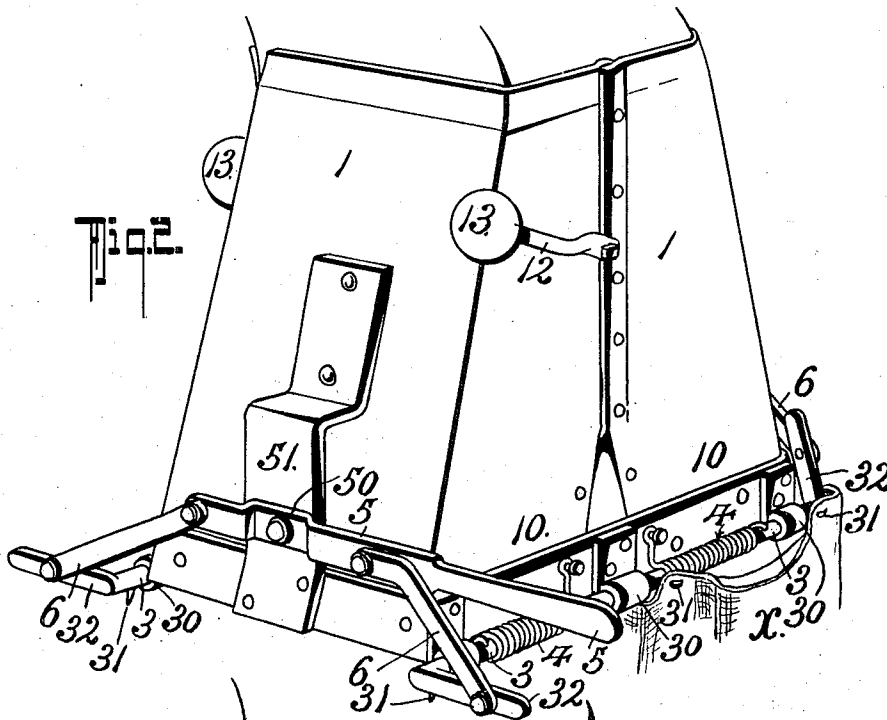
SACK HOLDER.

APPLICATION FILED SEPT. 5, 1911.

1,036,225.

Patented Aug. 20, 1912.

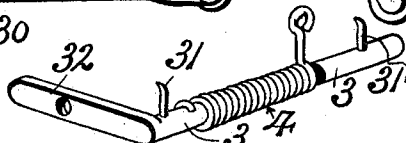
2 SHEETS—SHEET 2.



WITNESSES:

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Fig. 5.



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SACK-HOLDER.

1,036,225.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Application filed September 5, 1911. Serial No. 647,479.

To all whom it may concern:

Be it known that I, CHARLES J. HALL, residing at Rosalia, in the county of Whitman and State of Washington, have invented a new and Improved Sack-Holder, of which the following is a specification.

This invention, which in its general nature relates to improvements in means for sacking grain, more particularly has reference to that type of sack holding mechanisms in which is included a hopper having two discharge openings, a sack holder for each opening and a swinging board for controlling the flow of grain through one of the discharges as the filled sack on the other discharge is removed and a new sack is substituted therefor.

My invention has for its object to provide an improved sacking means of the character stated, in which a distinct and independently operating sack holding device is employed for each hopper discharge, in which the parts are compactly and economically arranged and designed for being quickly lever-tripped or shifted, from the opening and closing positions and automatically held locked to either of the said positions.

One of the other objects of my invention that will hereinafter appear, consists in certain details of construction and peculiar combination of parts, all of which will be hereinafter fully explained specifically and pointed out in the appended claim and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of a grain discharging hopper with my improved sacking device applied thereto, one of the sack holders being shown in the closed or sack holding position, and the other in the open or sack released position. Fig. 2 is a similar view, the position of the two independent sack holders being reversed. Fig. 3 is an end elevation of the hopper with one set of the bag holding devices, the latter being shown at the closed position in full lines and at the open position in dotted lines. Fig. 4 is a side elevation thereof, and Fig. 5 is a detail view of one of the pronged rock shafts and its cooperating spring.

In carrying out my invention, I form the grain discharging hopper 1 with a pair of diverging discharging members 10—10 through which the grain is caused to alternately flow, such discharging of the grain being controlled by a swinging grain board

11 within the hopper that is turned to either position by the crank or operating handle 12 having a counter-weight 13 for holding the board firmly to either of its adjusted positions.

Each of the discharging members 10 is equipped with my improved construction of sack holding means, and since both are constructed and are operated alike a detailed description of one set of said means will apply to both, it being readily understood, by referring to the drawings, the two sets of sack holders are designed and arranged so they operate independently, so that, as a filled sack is being removed from one discharge and the holding devices are shifted to the open or bag releasing position, the bag holder devices at the other side are set to their closed or bag holding position.

The sack holder means comprises a pair of rock shafts 3 mounted, one in each side of the opposite edges of the discharge 10, they being suitably supported in the brackets 30, and each is provided with a series of pendent prongs 31 31 for engaging and holding the mouth edge of the bag as is clearly shown in the drawing. Each shaft 3 has a crank arm or lever 32 at the outer end that is normally swung upwardly to the closed position, see Fig. 3, by the tension of the coiled spring 4, mounted on the shaft, with one end secured thereto and the other engaging the side of the discharge 10.

5 designates an actuating lever formed with a U-shaped portion 50 at the inner end that is pivotally mounted in a bearing 51 on the end of the discharge 10, and the said lever 5 is joined with the crank members of the pair of opposite shafts 3, by a pair of link arms 6—6, said arms being pivotally joined with the said lever and the cranks 32 as shown, and the said pivotal connections and the pivot of the lever 5 and the mounting of the crank shafts are relatively such, that when the lever 5 is swung down to the lower most or open position, see full lines on Fig. 2 and dotted lines on Fig. 3, the parts are held interlocked as against the tension of the springs 4 on the shafts 3, it being apparent from the drawing that when the lever is tripped upwardly the springs 4 will quickly throw the cranks 32, the links 6 and the lever 1 to the position shown in Figs. 1 and 3, and thereby hold the parts locked to the said position. It being also

understood that as the shafts 3 are rocked either under the hand action of the lever or by the springs 4, their prongs will be correspondingly moved to the bag engaging or releasing position.

By reason of the peculiar construction of the parts as shown and described, the operation of removing or placing the sacks can be quickly and conveniently accomplished, since the said parts are positively shifted and held locked to either position without the use of hooks or devices such as are frequently employed for locking the sacking holding members to their adjusted positions.

Having thus described my invention, what I claim is:—

In a sack holding means of the character described; the combination with a hopper having a pair of discharging throats, and means for cutting off the flow through one of the said throats as the other feeds out; of a supporting member for each side of the

hopper that extends the full width of the two discharging throats, bracket bearings on each of the said supports; a pair of rock shafts for each side of the hopper, in longitudinal alinement and journaled in the said brackets, means for each of said shafts tending to continuously rock the shafts in one direction, said shafts carrying sack holding prongs, a crank arm on the outer end of each of the said shafts, a lever fulcrumed between its ends on each end of the hopper, a link connected to each of the aforesaid crank arms, each adjacent pair of links being pivotally joined with the levers at their respective ends of the hopper, and one at each side of the fulcrum of the said respective levers.

C. J. HALL.

Witnesses:

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A. R. MYERS.