S. De VEAUX.

CHECK-ROWERS.

Patented Nov. 14, 1876.

No. 184,231.

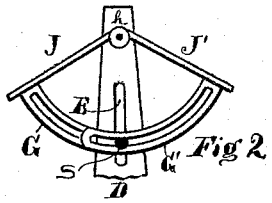

Fig 2

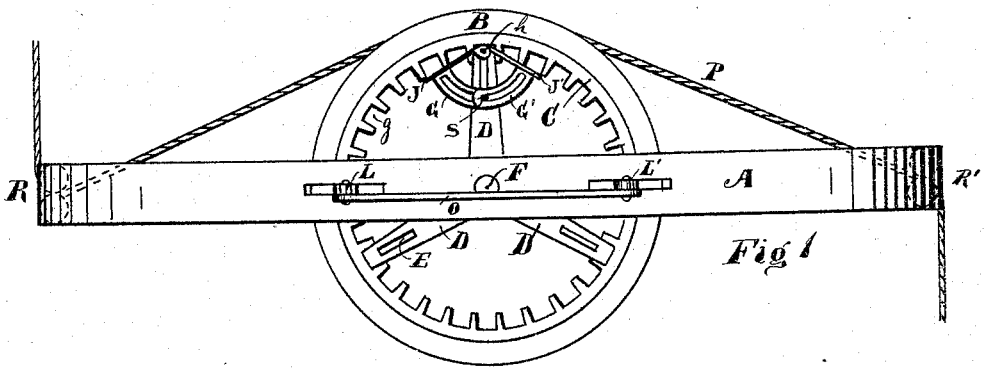

Fig 1

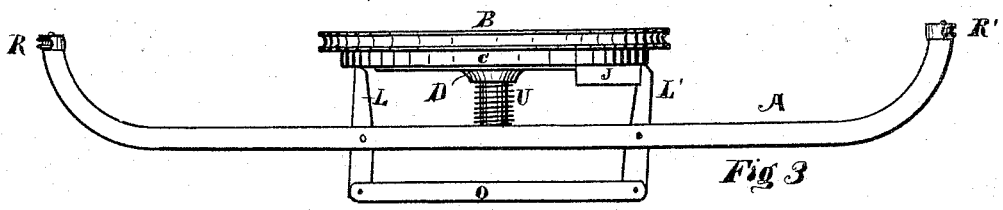

Fig 3

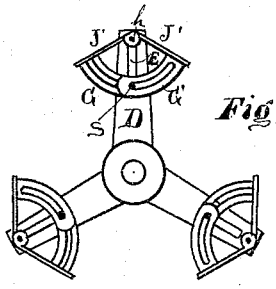

Fig 4

Witnesses
E. C. Whitney
Isaac Lupton.

Inventor
Samuel De Veaux
Per E. C. Whitney his atty.

UNITED STATES PATENT OFFICE.

SAMUEL DE VEAUX, OF LA FAYETTE, INDIANA.

IMPROVEMENT IN CHECK-ROWERS.

Specification forming part of Letters Patent No. **184,231**, dated November 14, 1876; application filed May 16, 1876.

To all whom it may concern:

Be it known that I, SAMUEL DE VEAUX, of La Fayette, Tippecanoe county, State of Indiana, have invented a new and useful Improvement in Check-Rowers, of which the following is a description, reference being had to the accompanying drawings.

The object of my invention is to construct a check-rower and attach it to any ordinary corn-planter, so that the corn will be dropped at equal distances; and it consists of a frame, A, above which, near the center, is supported a sheave-wheel, B, and rack-wheel C on the stud F. The rack-wheel C is attached to the sheave B, and is formed with a series of notches or cogs, *g*. These notches *g* are properly spaced, so as to allow the three arms of the regulator D to readily engage with any of the notches *g*, as will be hereafter described. The regulator D is also pivoted on the stud F, and is held up, so that the three arms are in gear with the wheel C, by means of the spiral spring U on the stud F, as shown. Each arm of the regulator D is provided with a slot, E, in which is a bolt, S. This bolt S passes through the slots in the segments G G′ of the V-shaped adjustable eccentric J J′. This V-shaped adjustable eccentric is formed of two wings, J J′, hinged at the front at *h*, as shown. The segments G G′ are also secured to the wings J J′ in the manner shown in Fig. 2. By means of this arrangement I am enabled to adjust the wings J J′ to any angle required, and at the same time adjust the extreme end or point, as at hinge *h*, to any required distance from the center of the regulator D by means of the slot E and bolt S, as shown. There are three of these adjustable V-shaped eccentrics—one on each of the three arms of the regulator, and they are made to engage with the levers L L′, to operate the feed-bar in the usual manner.

The wheel B is provided with a rope, P, which passes once around the wheel, and is led onto and off of the wheel by guide-pulleys R R′, attached to the frame of the machine in the manner shown.

When the wheel B is revolved by the rope P and movement of the machine forward, the regulator D, being held up in the cogs *g*, also moves around, and as each V-shaped cam J J′ comes in contact with the lever L the lever is moved and the feed-bar is operated in one direction, and as the next V-shaped cam comes in contact with the lever L′, then the feed-bar is moved in a reverse direction, and so on alternately with each V-shaped cam; and the amount of movement of the feed-bar is regulated by the adjustable V-shaped cams J J′ on the arms of the regulator D.

In order to adjust the regulator when desired, it is pressed down on the stud F and turned to any desired position, and then the spring U will hold it up in gear until it becomes necessary to again change it.

What I claim as new, and wish to secure by Letters Patent, is—

1. In a check-rower, the combination of the sheave B, cog-rack C, three-armed regulator D, and stud F, constructed and adapted for the purposes described.

2. The adjustable V-shaped eccentric or cam, formed of the two wings J J′, hinged at *h*, and the segments G G′, all arranged to operate in the manner shown, for the purposes specified and set forth.

3. In combination with the arms of the regulator D, the V-shaped eccentric J J′ G G′, in the manner shown, for the purposes specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL DE VEAUX.

Witnesses:

E. O. FRINK,

E. C. WHITNEY.