Gilbert Jessup & D. P. Sharp

Seeder

117295

PATENTED JUL 25 1871

Fig. 1

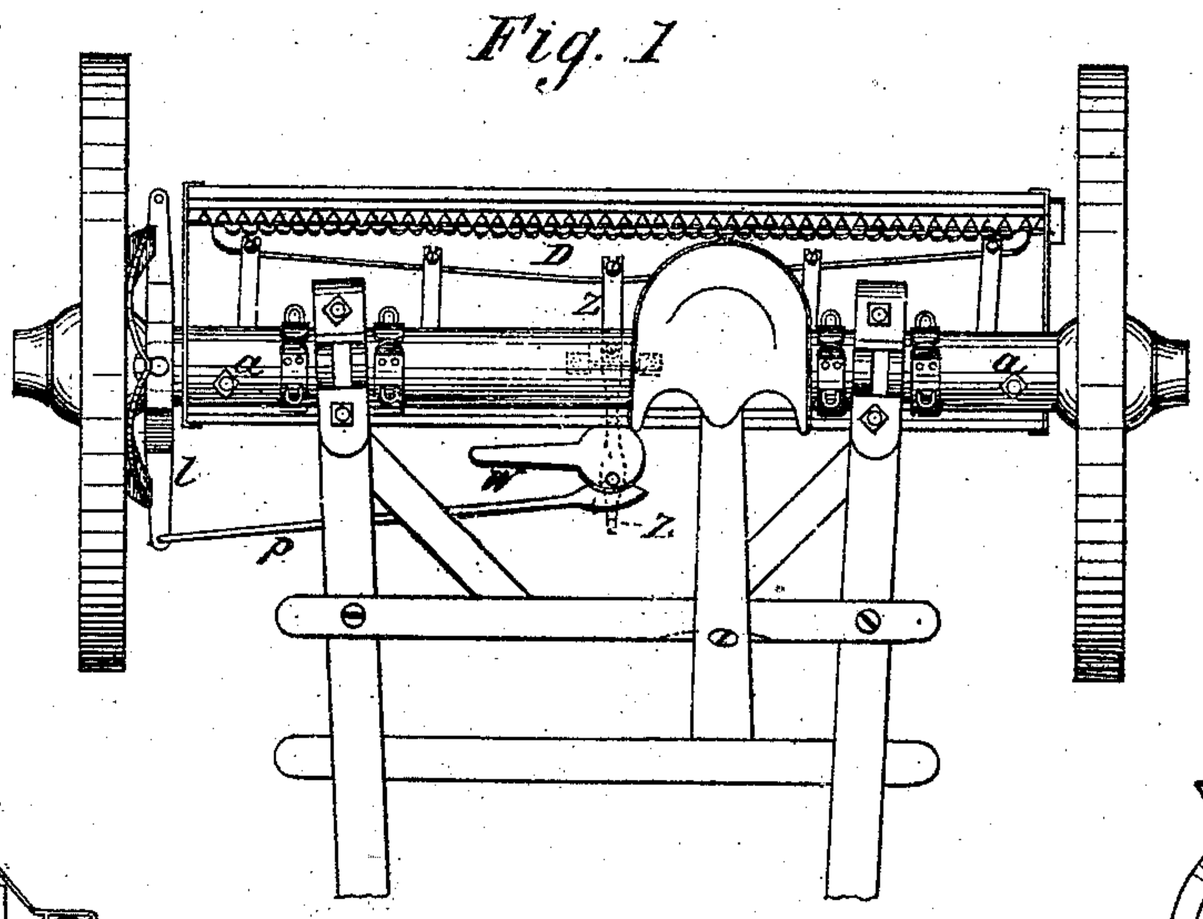


Fig. 4

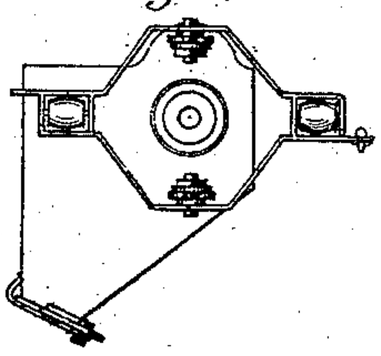
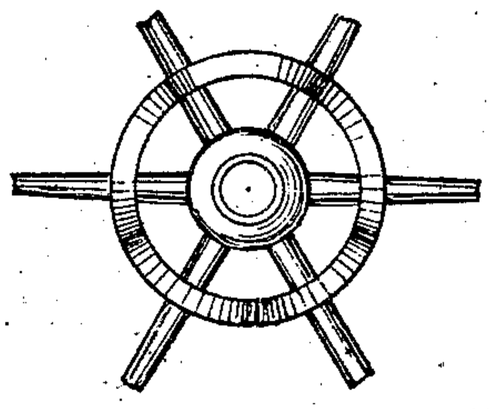


Fig. 5



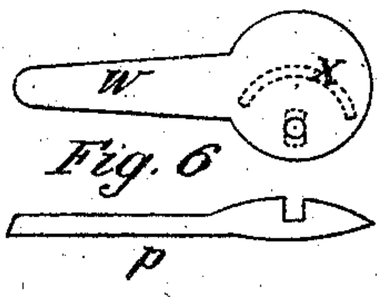


Fig. 6

Fig. 2

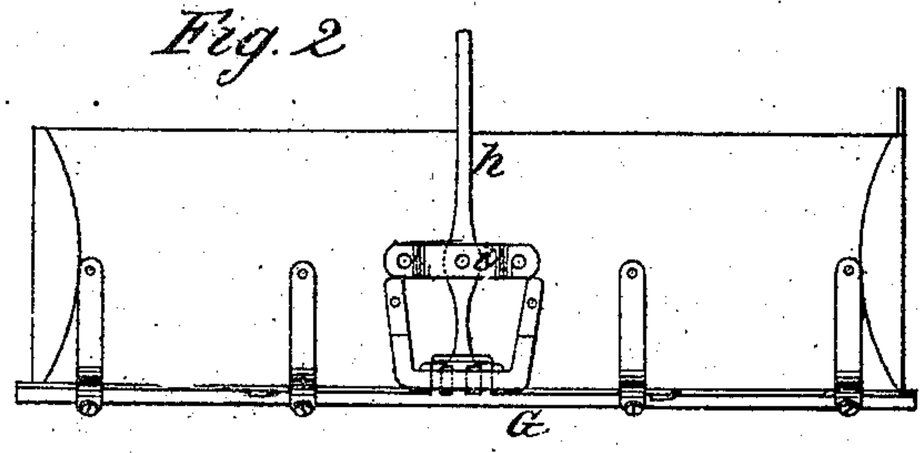


Fig. 3

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(2 Sheets) Sheet 2.

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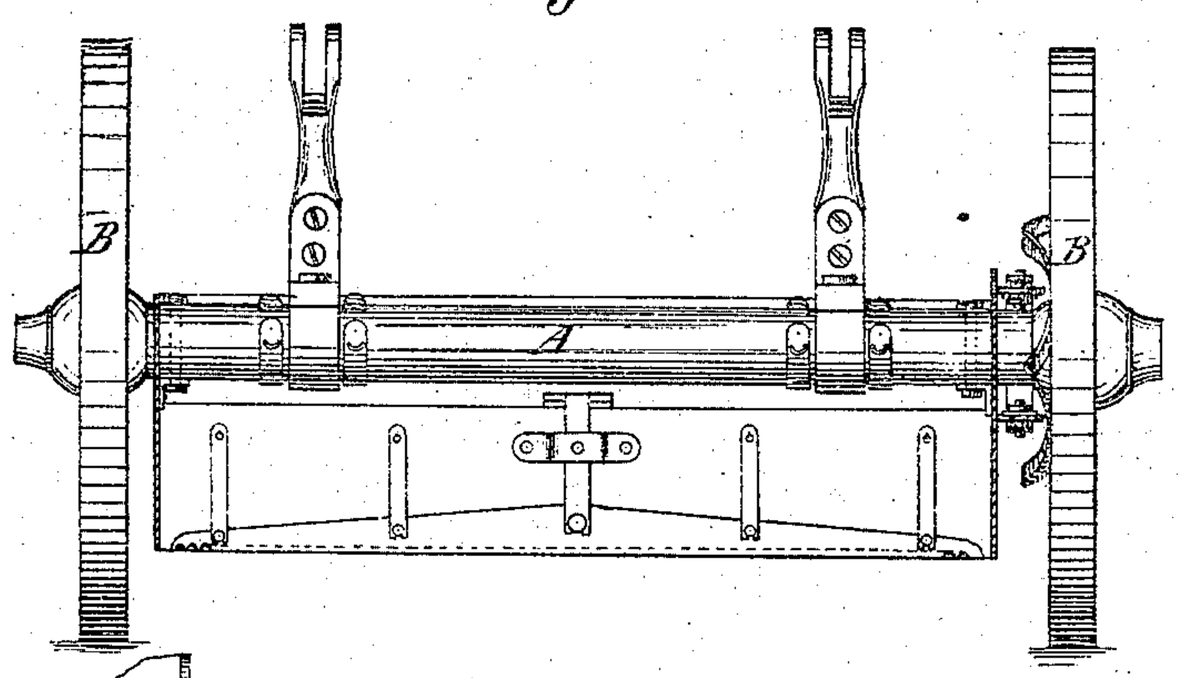
Fig. 7



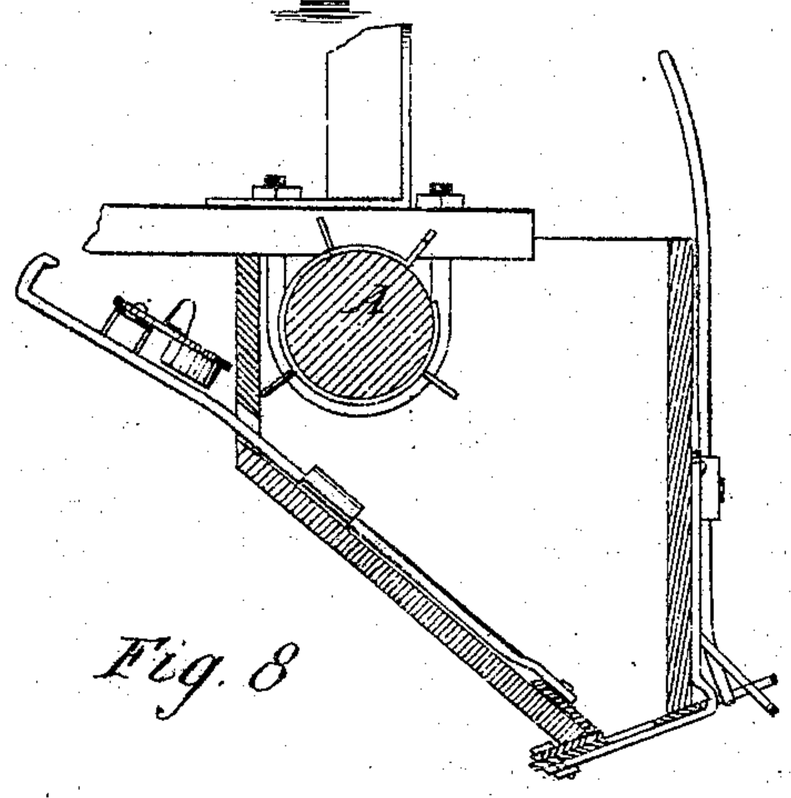


Fig. 8

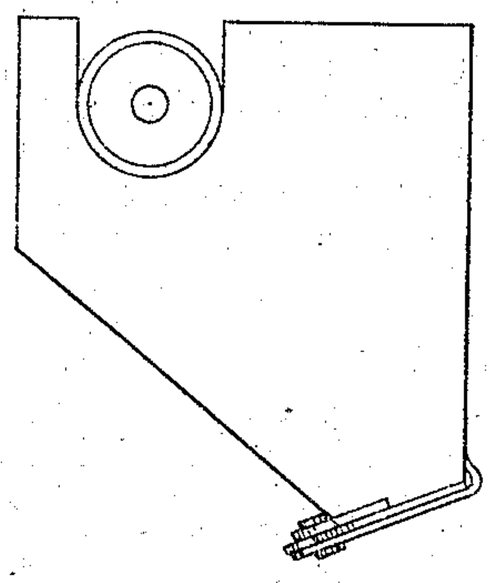


Fig. 9

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UNITED STATES PATENT OFFICE.

GILBERT JESSUP, OF SHORTSVILLE, AND DENNIS P. SHARP, OF ITHACA, ASSIGNORS TO "ITHACA AGRICULTURAL WORKS," OF ITHACA, NEW YORK.

IMPROVEMENT IN SEED AND PLASTER-SOWERS.

Specification forming part of Letters Patent No. 117,295, dated July 25, 1871.

To all whom it may concern:

Be it known that we, GILBERT JESSUP, of Shortsville, in the county of Ontario and State of New York, and DENNIS P. SHARP, of Ithaca, in the county of Tompkins and State of New York, have made a new and useful Improvement in Seeders and Plaster-Sowers; and we hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, in which—

Figure 1 is a top plan view, showing the position of all the parts. Fig. 2 is a rear view. Fig. 3 is plan view of the bottom of the trough of body of the machine. Fig. 4 shows the pivoted yoke to which the agitator-bar is attached. Fig. 5 is plan view of the cam-surfaces attached to the wheel, and which give a vibratory motion to the agitators. Fig. 6 is a detached view of the cam, which throws in or out of connection the agitator-bar. Fig. 7 is a vertical longitudinal sectional elevation. Fig. 8 is a cross-section, and Fig. 9 is an end view of the trough or body of the machine.

This invention is an improvement on that described in the patent of Gilbert Jessup, June 4, 1867, No. 65,390; and the improvement consists as follows: 1st, the device for opening and closing is placed in the back and lower side of the trough. This is composed of a bar worked by a lever acting upon a rack attached to the bar, as shown in Figs. 2 and 3. Uniformity in the motion of the closing-bar is secured by projections on the bottom worked in slots in the bar. 2d, the seeder-box is attached to the axle by bolts passing through slotted ears attached to the inside ends of the box, so that the box can be adjusted endwise on the axle-tree. There are also slotted ears on the outside of the end of the seeder-box, so that the cross-head may be adjusted to the cam surfaces on the wheel which moves the distributer. By loosening the bolts the cross-head may be moved nearer to or furthur from the cam-surface, at pleasure, by sliding in the slotted ears. The usual way of driving seeders is by gearing on the wheel. As soon as the wheels become worn a little the gear is thrown out of stroke and then it is difficult to readjust. 3d, in order to give the stirrer a longer or shorter stroke, and to throw the stirrer out of connection, a cam-lever is on the lever which moves the stirrer.

The following description will enable any one to make and use our invention:

In the drawing, A B are the axle and wheels of the ordinary form. The seeder-box, of the same form as described in No. 65,390, is attached to the axle by slotted ears from the ends of the box fitting against the under side of the axle, so that bolts *a a* pass through the ears and the axle. In Figs. 2 and 3, G is the serrated distributer-plate or bar, the same as in patent above mentioned, this plate corresponding with serrations in the fixed bottom-plate of the seeder-box. The bar G is moved by the lever *h*, pivoted at *i*. On the end of lever *h* are prongs like cogs, which engage with a short rack, *m*, on the middle of G, so that, by moving lever *h*, bar or plate G is moved longitudinally. Oblique slots K, on the lower edge of plate G, work on pins fixed on the bottom of the box, and cause plate G to close more or less the openings in the bottom of the box. Fig. 4 shows the cross-head, and Fig. 5 the cam-surfaces which cause the cross-heads to vibrate. The end *l* of the cross-head is attached to bar *p*, which has a notch in the end, as shown in Fig. 6. Lever W on cam X serves to throw up bar *p* and release it from its connection with the lever Z, which moves the stirrer D in the bottom of the box. By these devices the stirrer may be thrown out of gear at any time by moving cam-lever W.

We make no claim to the vibratory stirrer D in the bottom of the box, nor to serrated bottom plate and closing-plate, nor to the cross-head operated by cam-surfaces attached to the axle, as these are all shown in the invention of which this is an improvement.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination of slotted ears with the end of the seeder-box, so that, by means of bolts, the position of the box may be fixed and adjusted upon the axle, as set forth.

2. The combination of rod *p* with cam-lever W and stirrer-lever Z, as and for the purpose set forth.

Dated May 10, 1871.

GILBERT JESSUP.
D. P. SHARP.

Witnesses:
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CHARLES EGERTON.