(No Model.)

J. A. McDANIEL.

ATTACHMENT FOR CORN PLANTERS.

No. 261,942. Patented Aug. 1, 1882.

Fig. 1

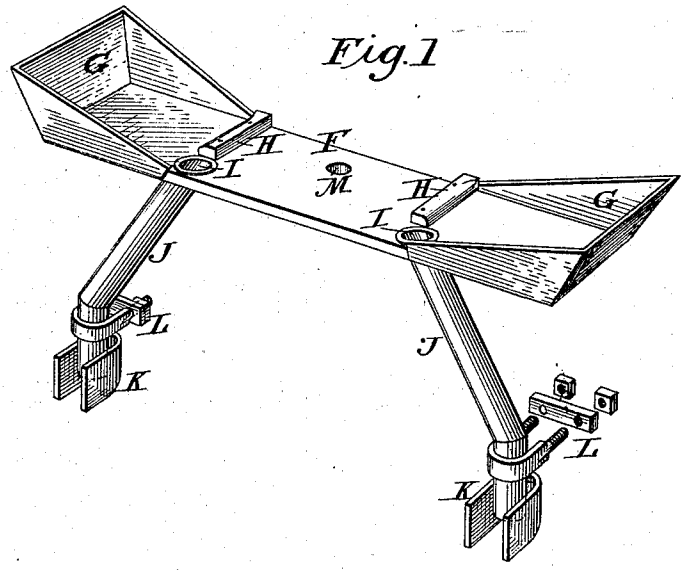


Fig. 2.

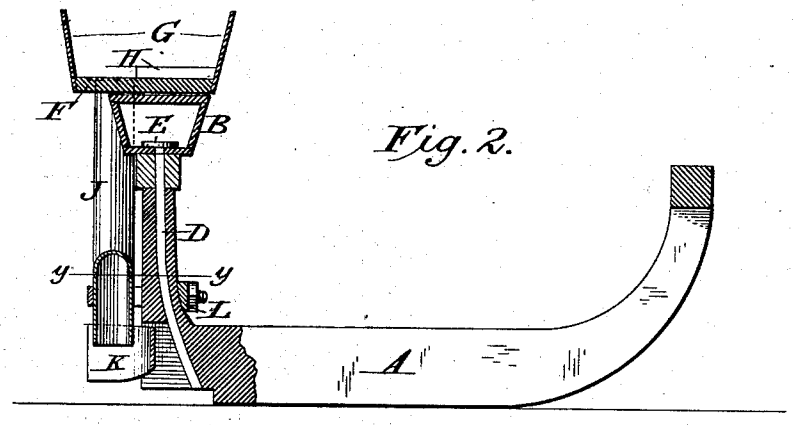
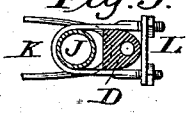


Fig. 3.



Attest.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 261,942, dated August 1, 1882.

Application filed March 30, 1882. (No model.)

To all whom it may concern:

Be it known that I, J. A. McDANIEL, of Lettsville, in the county of Louisa and State of Iowa, have invented certain Improvements in Attachments for Corn-Planters, of which the following is a specification.

My invention relates to an attachment designed for application to that common class of corn-planters in which a wheeled frame is provided with two runners or furrow-openers through the heels of which the corn is discharged into the furrow, the object of the invention being to enable farmers to readily adjust the machine for the purpose of planting potatoes and other seedlings which are too large to be planted by the ordinary machine.

To this end the invention consists in supplemental feed-spouts and hoppers designed for attachment to existing machines, as hereinafter explained.

Referring to the accompanying drawings, Figure 1 represents a perspective view of my attachment; Fig. 2, a vertical longitudinal section through one of the runners or furrow-openers of an ordinary corn-planter with my attachment applied thereto; Fig. 3, a horizontal section on the line *y y*, Fig. 2.

As is well understood by those familiar with the art, the corn-planting machine now in most common use consists of two runners or furrow-openers mounted side by side at the front end of an open frame, said hoppers and dropping mechanism, actuated by hand or otherwise, being located on or above the heels of the runners in such manner as to discharge seed through conducting-spouts into the furrow. It is to this class of machines, the general construction of which will be readily understood by the most unskilled person on reference, for example, to Letters Patent Nos. 99,286, 129,320, and 145,396, that my invention is designed to be applied.

Referring to the drawings, A, Fig. 2, represents one of the runners or furrow-openers; B, the seed-hopper or grain-box located above the runner; D, a conducting-tube by which the seed is conveyed from the hopper into the open heel of the runner, and E the dropping mechanism, all of which parts are of the ordinary construction and arrangement, and form no part of my invention.

Referring now to the construction of my attachment, F, Figs. 1 and 2, represents a long flat board or frame adapted to extend crosswise of the ordinary machine and cover its two feed-hoppers, B. At each end this board is provided with a raised rim or flange, G, and on the upper surface with a raised board or cleat, H, the rim and cleat forming at each end of the board a hopper or receptacle to receive the potatoes or other seedlings. At each end of the board an opening, I, is formed, and from this opening a conducting spout or tube, J, is extended downward and outward, as shown in Fig. 1, the tube being provided at the lower end with a mouth-piece or shoe, K, open on the rear side. There is also attached to the lower end of each of the tubes J a clamp, L, consisting of two forwardly-extending arms having their ends threaded and provided with cross-plates and nuts, as represented in Fig. 1. The parts are so proportioned and arranged that upon placing the base-board F on top of the ordinary seed-hoppers the tube J will extend downward to the heel of the runners A, and the supplemental shoes K seat themselves firmly in the rear open end of said runners, as shown at Figs. 1 and 2. By means of the clamps L engaging upon the ordinary seed-tube, B, or with any suitable part of the runner A, the attachment may be held securely in position upon the machine.

In order to give additional security to the attachment, it is preferred to provide the board F with a central hole, M, and to pass a vertical bolt through the same into the frame of the machine.

The essential feature of the invention consists in the supplemental tubes and hoppers arranged for application to an ordinary machine for the purpose of conducting the potatoes into the furrow immediately behind the runners A, and it is manifest that the form of the parts and the construction of the clamps or attaching devices may be modified without departing from the scope of the invention.

In making use of the device the potatoes or other seedlings are placed in the supplemental hoppers G and delivered through the openings I into the tubes J by a boy or other attendant riding upon the machine. It is found that by bringing the upper ends of the tubes inward,

as represented, a single attendant is enabled to use both hands and to feed the two tubes simultaneously without difficulty.

On referring to Fig. 3 it will be seen that the shoes or mouth-pieces K are made of somewhat greater width than the heel of the runners A. This is done for the purpose of enabling them to produce a furrow of increased width necessary to receive the potatoes. The forward ends of the shoes K, being rounded or pointed, will seat themselves with great firmness and rigidity in the rear open ends of the runners, thus holding the parts in the required position.

While I have described my attachment as being designed more particularly for planting potatoes and other large seedlings, it may be used for planting other seed which for size or other cause cannot be planted by the ordinary planter, such as soaked seed of different kinds, beans, cotton-seed, &c.

It is also manifest that instead of having a single operator feed both tubes two children or other attendants may ride upon the machine, each feeding or supplying one of the tubes with seed. This course is in many cases preferred.

When two attendants are employed to feed the machine the inward inclination of the tubes is not essential, except so far as it may be necessary to enable them to pass by the hoppers or other parts of the ordinary planter.

Having thus described my invention, what I claim is—

1. The supplemental seeding attachment for application to corn-planting machines, the same consisting essentially of the supplemental frame provided with hoppers and conducting-spouts, substantially as described and shown, whereby it is adapted for temporary use upon existing machines.

2. The attachment for corn-planting machines, consisting of the base-board, the hoppers, and the conducting-spouts having their lower ends adapted for application to the runner-heels, and their upper ends inclined inward, as and for the purpose described.

3. The auxiliary or supplemental attachment for corn-planting machines, embracing, in combination, the base-board F, its hoppers, the outwardly-inclined and downwardly-extended conductors and their shoes, and the furrow-openers attached to the lower end of said conductors, and adapted, as described, for use upon the runners of a corn-planter.

4. In a supplemental attachment for corn-planting machines, the combination, with the conducting-tubes J, of the hoppers G H, provided with openings or passages adjacent to the mouths of the tubes, as described, whereby the delivery of the seed from the hopper into the mouth of the tube by hand is facilitated.

5. A potato-planting attachment for corn-planting machines, consisting of a frame provided with supplemental hoppers, conducting-spouts, and attaching devices, substantially as set forth, for temporary application to a corn-planter.

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Witnesses:
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