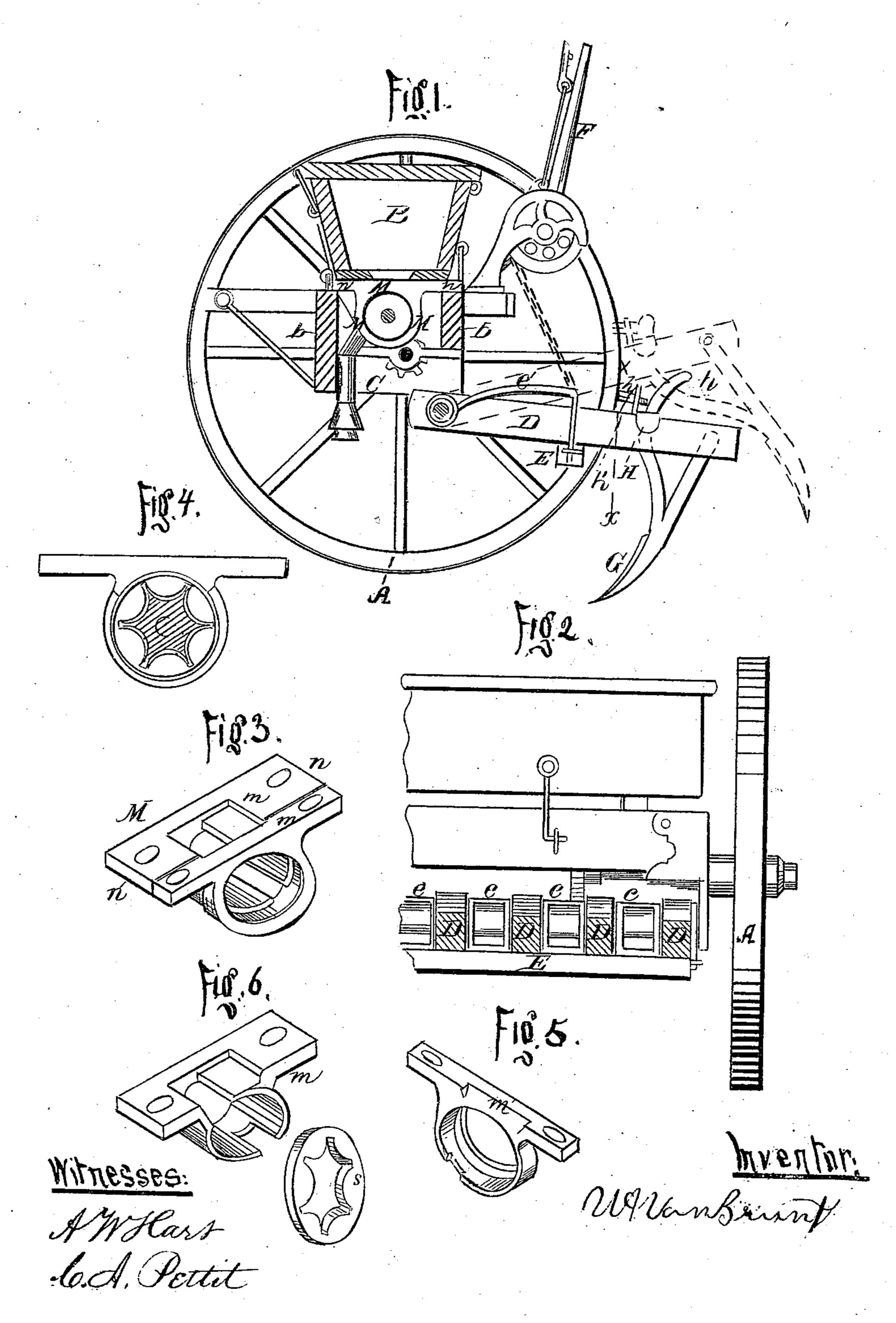
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## Anited States Patent Office.

## W. A. VAN BRUNT, OF HORICON, WISCONSIN.

Letters Patent No. 94,258, dated August 31, 1869.

## IMPROVEMENT IN SEEDING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, W. A. VAN BRUNT, of Horicon, in the county of Dodge, and State of Wisconsin, have invented a new and improved Seeding-Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 is a longitudinal vertical section.

Figure 2 is a cross-section, through line x x of fig. 1. Figure 3 is a detached view of the box M, enclosing the feed-cylinder.

Figures 4, 5, and 6, represent details of the box M. The object of this invention is to improve the construction of seeding-machines by the application of new devices for adjusting the teeth and their dragbars, and a novel construction of the boxes enclosing the feed-cylinders, as hereinafter described.

In the drawings—

A A are the draught-wheels;

B, the seed-box, resting upon a frame composed of two cross-pieces, b b, united at their ends by a metallic plate, C, and supporting between them the feed-cylinders, their shaft, and enclosing-boxes;

D D, the drag-bars;

E, a bar extending under the drag-bars, and connected by a cord or chain to a lever, F, by which to raise or lower them all at once; and

G G, the cultivator-teeth, attached to the dragbars.

The teeth are constructed with a bifurcated shank, the rear part of which is articulated to the end of the drag-bar, the front part being curved and extending through a vertical slot in the drag-bar, as shown in fig. 1.

Upon the upper end of the curved arm of the shank slips a plate, H, provided with a flange or lug, h, and a set-screw, h', by which it can be fixed at any point on the curved shank, so that when the machine is at work the nut will draw down against the upper edge of the drag-bar, and form a stop to hold the tooth in position; but, when the latter comes in contact with an immovable obstacle, the nut will slip and yield, and

let the tooth turn back on its pivot, and pass over the obstacle.

The nut H may be struck up at a blow from an iron plate, and, together with its screw, will not appreciably increase the cost of the machine.

The bar E is intended not only to raise and lower the drag-bars, but to keep them parallel with each other. To this end, a bent iron rod, e, in the form of an inverted U, is affixed to the bar between each adjacent pair of drag-bars, as shown in fig. 2, the dragbars at the sides of the machine being held in place by a bent rod, e', of the form seen in fig. 1.

The same result may obviously be reached by omitting altogether the wooden bar E, and employing in its place an iron rod, properly bent up between the drag-bars and at the sides of the machine.

The boxes M M, enclosing the feed-cylinders, are constructed in two pieces, m m', fitting together at their edges, and enclosing between them the disk s, which forms the end of the seed-pockets," the whole being supported by the two frame-pieces b b, by means of flanges, n n, cast as part of the boxes, and resting upon the upper edge of the frame-pieces.

Each of the parts m m' is east in one piece, through which extends the cylinder shaft, and in which works the cylinder.

An opening is provided in the under side of the box for the escape of the seed.

The form and construction of these boxes are well shown in figs. 3, 4, 5, and 6.

Having thus described my invention,

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

- 1. The plate H, with  $\log h$  and set-screw h', when used in combination with drag-bar and tooth, as described.
- 2. The boxes M M, when constructed of the two parts m m', enclosing between them the disk, as described, each of said parts m m' being cast in a single piece, substantially as set forth.

Witnesses: W. A. VAN BRUNT. CHAS. A. PETTIT, SOLON C. KEMON.