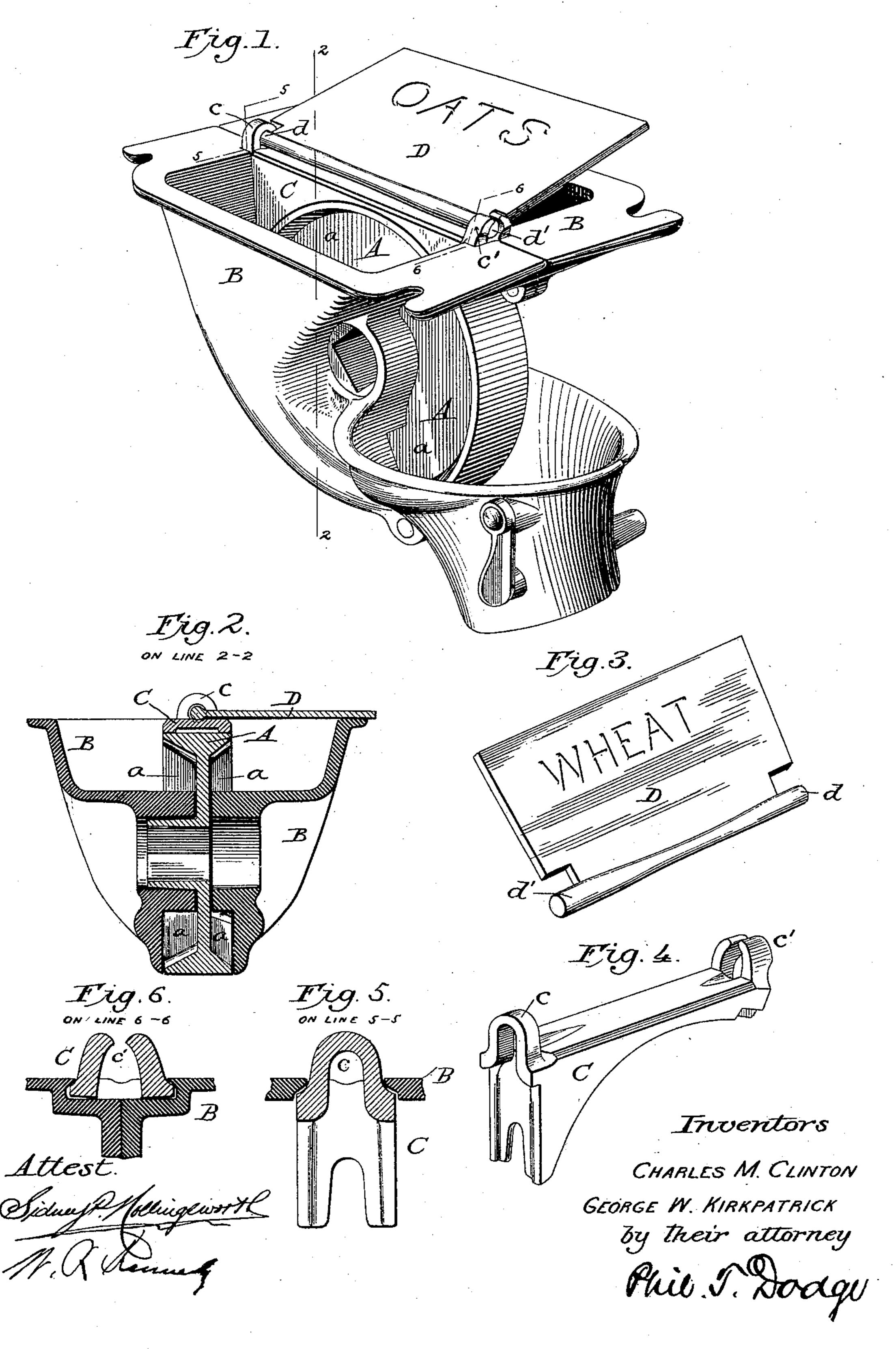
(No Model.)

C. M. CLINTON & G. W. KIRKPATRICK. GRAIN DRILL.

No. 444,290.

Patented Jan. 6. 1891.



United States Patent Office.

CHARLES M. CLINTON, OF ITHACA, AND GEORGE W. KIRKPATRICK, OF MACEDON, ASSIGNORS TO HELEN M. KIRKPATRICK, OF MACEDON, NEW YORK.

SPECIFICATION forming part of Letters Patent No. 444,290, dated January 6, 1891.

Application filed June 12, 1890. Serial No. 355,234. (No model.)

To all whom it may concern:

Be it known that we, CHARLES M. CLINTON, of Ithaca, in the county of Tompkins and State of New York, and GEORGE W. KIRKPATRICK, 5 of Macedon, in the county of Wayne, and State of New York, respectively, have invented certain Improvements in Grain-Distributers, of which the following is a specification.

Our invention has reference to that class of 10 force-feed distributers in which a vertical feedwheel revolving in a seed-cup is provided in its opposite sides with two annular channels adapted to feed different kinds or quantities of seed, and combined with a cut-off device 15 by which either of the channels may be brought into use at will.

construction and arrangement of the cut-off or wicket which we hinge to a bridge or divis-20 ion plate in the cup overlying the wheel, so that the wicket may be turned from one side to the other in order to cover one or the other of the throats or seed-inlets.

In the accompanying drawings, Figure 1 is 25 a perspective view of our improved feeder. Fig. 2 is a vertical cross-section of the same on the line 2 2 of Fig. 1. Fig. 3 is a perspective view of the wicket or cut-off. Fig. 4 is a perspective view of the bridge to which the 30 wicket is hinged. Figs. 5 and 6 are vertical cross-sections on the lines 5 5 and 6 6 of Fig. 1, showing the manner in which the bridgepiece is secured in position.

Referring to the drawings, A represents the 35 vertical feed-wheel, provided in its opposite faces with the two independent annular channels a a.

B is a feed cup or case consisting of two complementary halves fastened together and | the machine is adapted to distribute when 40 adapted to confine the feed-wheel between them, the form of the cup being such that the seed entering at the top may pass downward on opposite sides of the wheel into its respective channels, through which it is carried by the 45 rotation of the wheel and continuously delivered at the rear. The construction and operation of these parts are essentially the same as in the feeders now in general use, and being familiar to those skilled in the art and

foreign to our invention need not be further 50 described herein.

C represents a stationary bridge-piece or casting fixed centrally within the cup, its lower edge being curved to closely encircle the upper side of the wheel, so that it serves as a 55 division between the two sides of the cup.

D represents the wicket or cut-off to which our invention relates. This wicket is hinged at one edge to the top of the bridge-piece, so that it may be turned from right to left to 60 cover and close either side of the feed-cup at will. The two channels of the feed-wheel are of different sizes or forms and are adapted for the feeding of different kinds of grain or the same grain at different rates of speed, so 65 The improvement consists in the peculiar | that by turning the wicket from one side to the other we may permit the passage of the grain through either side of the wheel at will, at the same time preventing its passage through the opposite side.

> The bridge is cast complete in one piece, with a perforated ear c at one end and with a slotted ear c' at the opposite end, and is held immovably in place between the two sections of the feed-cup B. The bridge is inserted be- 75 fore the sections of the cup are fastened together, and the sections recessed in their approximate faces to receive and interlock with the ends of the bridge, as shown in Figs. 5 and 6. The parts may be constructed in any suit- 80 able form, provided only the sections of the cup are adapted to hold the bridge in place

> The wicket or cut-off is formed, as shown, with journals or trunnions d d' at opposite ends and of appropriate size to enter the ears 85 of the bridge. The wicket is marked on each side with the name of the seed or grain which that side of the wicket is uppermost, so that the attendant observing the name which is 90 exposed to view on the plate is prevented from accidentally adjusting the wicket in an improper position. The trunnions of the wicket differ in size and the ears in which they are entered are made of corresponding 95 size, so that in assembling the parts the workman is compelled to place the wicket in the proper position—that is to say, in position to

expose the names in the proper relation to the seed-cup. The wicket is inserted into its place by sliding it endwise through the slotted ear. When turned to either side its escape 5 is impossible.

Having thus described our invention, what

we claim is—

1. In combination with the duplex feedwheel, the divided cup, the bridge confined . 10 between the two parts of the cup and provided with ears, and the reversible wicket or cut-off provided with journals seated in said ears.

2. In combination with the feed-wheel and 15 cup, the bridge provided with the perforated and the slotted ear, and the reversible cut-off plate provided with journals and adapted for insertion in an endwise direction through the slotted ear.

3. In a duplex seed-distributer, the reversible wicket marked to indicate different seeds

and having variant journals, in combination with a support having corresponding ears, whereby the application of the wicket in an

improper position is prevented.

4. In combination with the feed-wheel and feed-cup having variant passages therethrough, the hinged reversible wicket bearing on opposite sides the names of different grains, so that the adjustment of the feeder to 30 distribute a given grain is attended by the exposure of its name and the concealment of the other.

In testimony whereof we hereunto set our hands this 27th day of May, 1890, in the pres- 35 ence of two attesting witnesses.

> CHARLES M. CLINTON. GEORGE W. KIRKPATRICK.

Witnesses:

LEROY H. VAN KIRK, A. E. BALL.