

(No Model.)

M. B. GOOING.  
CULTIVATOR.

No. 490,765.

Patented Jan. 31, 1893.

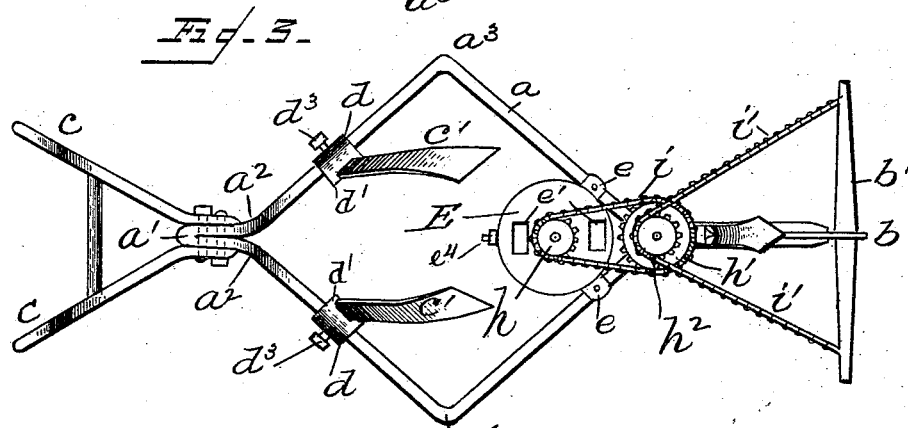
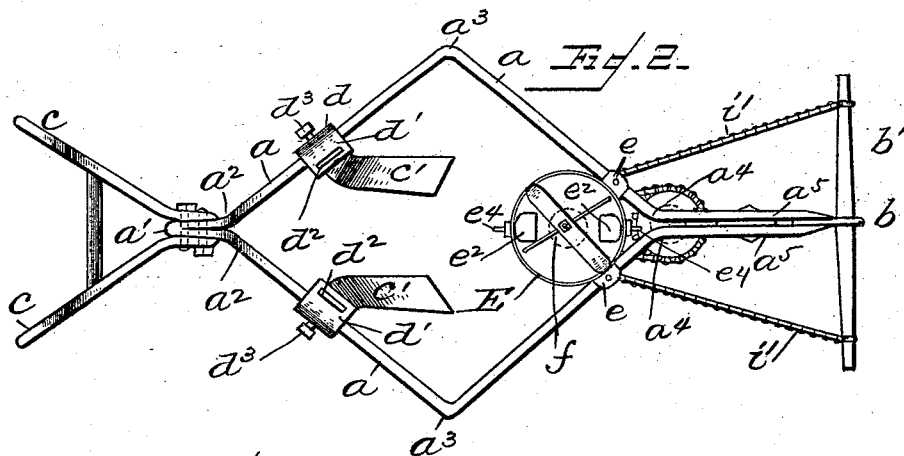
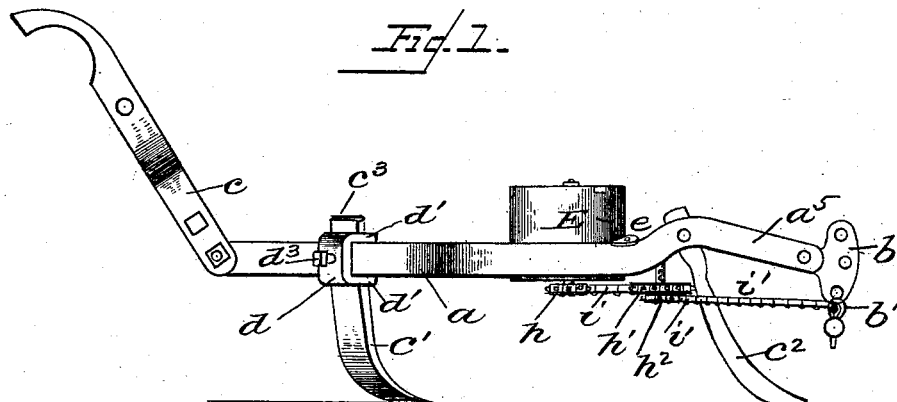
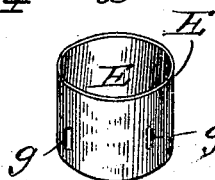


Fig. 4.

WITNESSES  
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INVENTOR

Montin Bird Goring

# UNITED STATES PATENT OFFICE.

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## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 490,765, dated January 31, 1893.

Application filed September 2, 1892. Serial No. 444,923. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN BIRD GOOING, a citizen of the United States, residing at Bastrop, in the parish of Morehouse and State of Louisiana, have invented certain new and useful Improvements in Cultivators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is a combined cultivator and planter, and consists in the novel construction and arrangement of its parts.

In the accompanying drawings: Figure 1, is an elevation of my invention. Fig. 2, is a top plan view. Fig. 3, is a bottom plan view of the same, and Fig. 4, is an elevation of the hopper.

The frame of the invention consists of an iron beam, *a*, bent back upon itself at *a'*, and at right angles at the points, *a*<sup>2</sup>, *a*<sup>3</sup>, *a*<sup>4</sup>, and terminating in a tongue, *a*<sup>5</sup>, holding between its two parts the drawhead, *b*, provided with three perforations one above the other so that the single tree, *b'*, may be hung high or low and thus to some extent regulate the pitch of the planter. The planter is provided with the usual handles, *c*, and feet or plow points, *c'* and *c*<sup>2</sup>. The plow points, *c'*, are secured to the frame by a clasp *d*. Said clasp is constructed of a bar of metal its two ends, *d'*, being bent at right angles to its body and provided with perforations or slots, *d*<sup>2</sup>, to receive the upper and tenon end, *c*<sup>3</sup>, of the plow point, *c'*. Through the body of the clasp is a screw bolt, *d*<sup>3</sup>, adapted to be operated by a wrench. The clasp, *d*, is put on to the frame, the tenon, *c*<sup>3</sup>, passes up through the slots, *d*<sup>2</sup>, and then the bolt, *d*<sup>3</sup>, is turned until the plow point is securely clamped against the frame. It is evident that with this clamp many plows may be put on and in as many different positions as desired. In the front part of the frame is a seed hopper, *E*, which is secured to the said frame by extensions and bolts, *e*, or other suitable means. In the bottom of the said hopper are two dropping orifices, *e'*, one immedi-

ately in front of the other (see Fig. 3). These dropping orifices are covered by false bottoms, *e*<sup>2</sup>, which are secured inside of the hopper by means of bolts and nuts, *e*<sup>4</sup>. These false bottoms are some little distance above the main bottom of the hopper so that the arms of the stirrer, *f*, may pass under them and thus keep the seed constantly dropping through the openings, *g*, (see Fig. 4) of the hopper through which the bolts, *e*<sup>4</sup>, pass have vertical slots so that the false bottoms, *e*<sup>2</sup>, may be raised or lowered to regulate the flow of the seeds. The said stirrer is secured in the center of the hopper on a vertical shaft. On the lower end of said vertical shaft is a sprocket wheel, *h*. In front of said sprocket wheel and between the two parts of the tongue extends downwardly a rod on which is journaled a larger sprocket wheel, *h'*, and immediately under said sprocket wheel and secured to the same is a small sprocket wheel, *h*<sup>2</sup>. The sprocket wheels, *h* and *h'*, are connected by a sprocket chain, *i*, and from the small sprocket wheel, *h*<sup>2</sup>, runs another sprocket chain, *i'*, the ends of which are secured to each end of the single tree, *b'*. The horse being attached to said single tree by proper harness it is evident that as he walks the ends of the single tree will play backward and forward, and thus the small sprocket wheel will be partly rotated and, by means of the gearing just described, the stirrer will be rotated back and forth and thus the seeds made to drop through the openings *e'*.

Having described my invention what I claim as new and desire to secure by Letters Patent, is:—

The combination of the beam *a*, bent in proper shape to form the frame of the cultivator and adapted to carry suitable handles, plow points and drawhead; hopper *E*, provided with the vertical slots *g*, and dropping orifices *e'*; false bottoms *e*<sup>2</sup>, secured over the said orifices by means of bolts *e*<sup>4</sup>, passing through said slots *g*, and secured by proper nuts; stirrer *f*, pivoted vertically in the center of said hopper with its arms adapted to play under said false bottoms and over said dropping orifices; sprocket wheel *h*, secured to the lower end of the shaft of said stirrer; 100

sprocket wheels  $h'$  and  $h^2$ , secured to a rod  
extending from the tongue of the frame; draw-  
head  $b$ , secured in the front end of the tongue;  
single tree  $b'$ , pivoted to said drawhead;  
5 sprocket chain  $i$ , passing around the sprocket  
wheels  $h$  and  $h'$ ; sprocket chain  $i'$ , passing  
around the sprocket wheel  $h^2$ , and having its  
ends secured to each end of said single tree,

substantially as shown and described and for  
the purposes set forth. 10

In testimony whereof I affix my signature in  
presence of two witnesses.

MARTIN BIRD GOOING.

Witnesses:

G. W. NAFF,

J. P. MADISON.