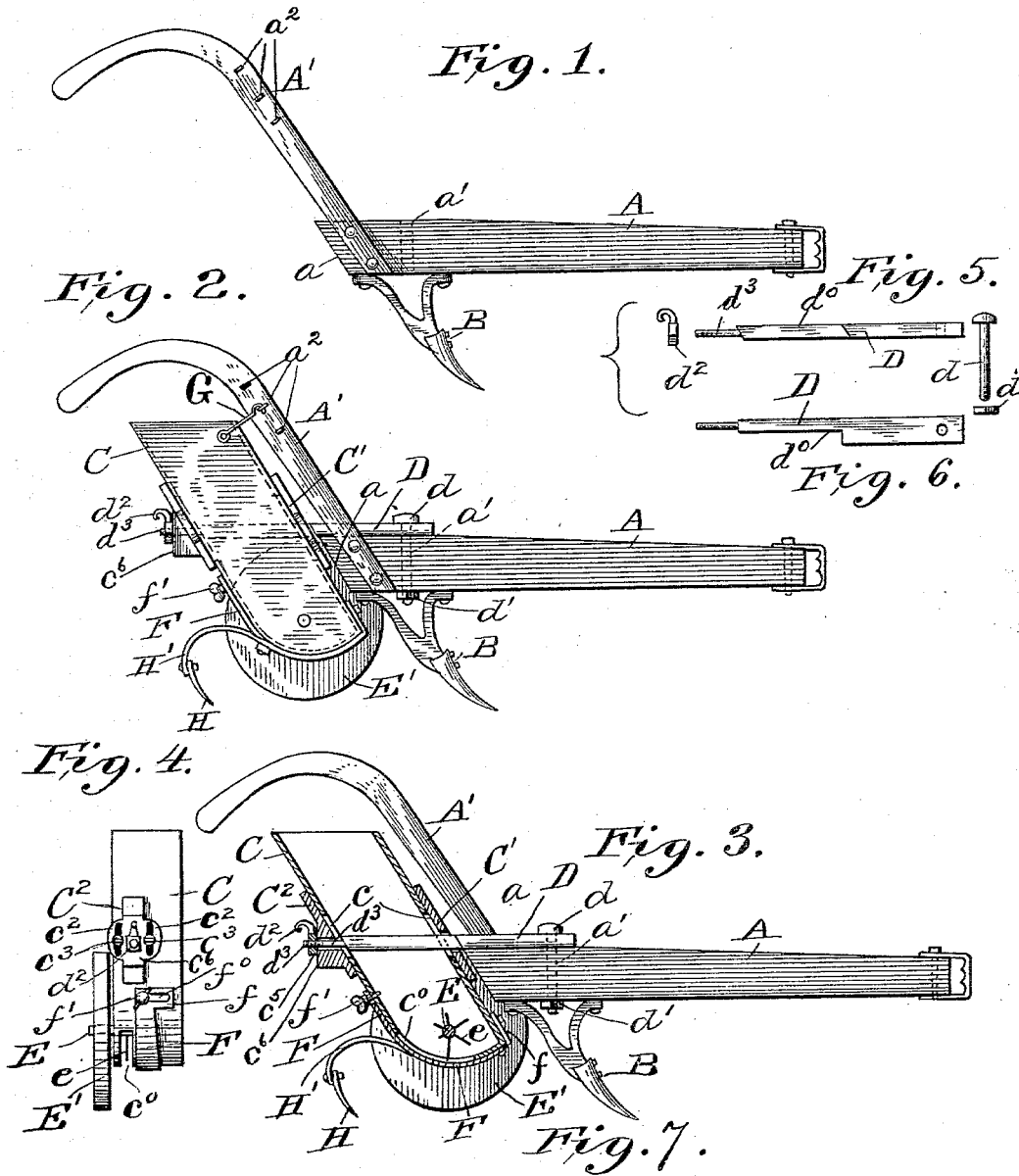


(No Model.)

W. V. PAYNE.
PLANTER ATTACHMENT FOR PLOWS.

No. 552,923.

Patented Jan. 14, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM V. PAYNE, OF CHAPPELLS, SOUTH CAROLINA.

PLANTER ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 552,923, dated January 14, 1896.

Application filed May 22, 1895. Serial No. 550,252. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM V. PAYNE, a citizen of the United States, residing at Chap-
pells, in the county of Newberry and State of
5 South Carolina, have invented certain new
and useful Improvements in Cotton-Planter
and Fertilizer-Distributor Attachments for
Plows; and I do hereby declare the following
to be a full, clear, and exact description of the
10 invention, such as will enable others skilled
in the art to which it appertains to make and
use the same.

My invention relates to improvements in
cotton-seed planters and guano-distributors;
15 and it consists of a detachable device adapted
to be connected to any ordinary plow-beam
and comprising a novel combination and ar-
rangement of parts to be hereinafter described
and claimed.

20 Reference is had to the accompanying draw-
ings, in which the same parts are indicated
by the same letters throughout the several
views.

Figure 1 represents a side elevation of a
25 shovel-plow of ordinary construction, the
beam of which is perforated for the purpose
of attaching thereto my improved device.
Fig. 2 represents a side elevation of the same
plow shown in Fig. 1 after my improved de-
vice has been attached thereto. Fig. 3 rep-
30 represents a section through the center of the de-
tachably device shown in Fig. 2 while at-
tached to the plow-beam. Fig. 4 represents
a rear view of the detachable device as de-
tached from the plow, but the coverers are
35 omitted for the better illustration of the base
of the hopper. Fig. 5 represents in detail the
bar and means for connecting the same to
the hopper and the plow-beam, which bar sup-
40 ports the said hopper in position. Fig. 6 rep-
resents a plan view of the bar shown in side ele-
vation in Fig. 5, and Fig. 7 represents one of
the adjustable plates clamped to the face of
the hopper to form a bearing for the bar
45 shown in Figs. 5 and 6.

A represents the plow-beam provided with
a perforation a' . This beam carries a plow
B of any desired or suitable construction, and
is also provided with handles A' .

50 The rear of the plow-beam is sloped back-
ward, as at a , and against which abuts one of
the adjustable bearing-plates secured to the

hopper C. The front bearing-plate C' is pro-
vided with an angular perforation c^0 to re-
ceive the reduced portion d^0 of the bar D, and
55 the said plate covers the vertical slot c^0 in the
front side of the hopper C. It is adjusted in
position by means of the screws c^3 , which pass
through the slots c^2 . The rear end of this bar
D is reduced, as at d^3 , and is screw-threaded
60 to engage the hand-nut d^2 . This bar has the
said reduced portion d^3 projecting through the
rear slot c of the hopper and through the ap-
erture c^5 in the rear block C^2 , which is pro-
vided with a flat face c^6 , against which the
65 hand-nut d^2 engages. Thus it will be seen
that the said hopper may be raised or lowered
relative to the said bar, and may be clamped
in position at such a height as may be de-
sired. The hopper may also be steadied by
70 means of a hook G, engaging in one of the
eyes a^2 , as shown in Figs. 1 and 2.

To the base of the hopper, which is pro-
vided with a slot c^0 , an adjustable plate F is
attached, as by means of the clamp-screws f'
75 passing in the slot f^0 in the laterally-extend-
ing heads f , as shown most clearly in Fig. 4.
This plate F may be adjusted by means of
the said clamp-screw f' to cover the whole of
the slot c^0 or only a portion thereof, as may be
80 desired, and thus the delivery of seed or fer-
tilizer may be regulated at will.

Transversely in the hopper C is mounted a
shaft E, which is provided with a series of
stirring-arms e , the longest of which projects
85 into the slot c^0 , as shown in Figs. 3 and 4.
This shaft E is rotated by means of the wheel
 E' , which runs in the furrow in rear of the
plow B.

The seed and fertilizer are covered up by the
90 coverers H attached to the resilient arms H' ,
which are attached to the base of the hopper
C in any convenient way.

It will be obvious that if the bolt d , which
fastens the bar D to the plow-beam, be re-
95 moved, which can readily be done by unscrew-
ing the nut d' , then the entire seed-planting
and fertilizer-distributing apparatus may be
detached from the plow at one operation.

These and the various other advantages of
100 the herein-described construction will read-
ily suggest themselves to any one skilled in
the art.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent of the United States, is—

1. In a seed planting attachment for plows, the combination with a hopper provided at its lower end with seed distributing and seed covering devices, and having a slot through its forward wall and a similar slot through its rear wall, of a metal bar provided at one end with a reduced portion and screw threaded to receive a nut, and having a perforation through its opposite end to receive a bolt, the reduced end of said bar being adapted to pass through the slots in the forward and rear walls of the hopper and be secured by a nut, and the other end of said bar being adapted to be attached to the upper side of the plow beam for supporting the hopper, by means of a bolt passing through the perforation therein and through a perforation in the beam of the plow, substantially as and for the purposes described.

2. In a seed planting attachment for plows, the combination with a hopper provided at its lower end with seed distributing and seed covering devices, and having a slot through its forward wall and a similar slot through its rear wall, of a metal bar provided at one end with a reduced portion and screw threaded to receive a nut, and having a perforation through its opposite end to receive a bolt, the reduced end of said bar being adapted to pass through the slots in the forward and rear walls of the hopper and be secured by a nut, and the other end of said bar being adapted to be attached to the upper side of the plow beam for supporting the hopper, by means of a bolt passing through the perforation therein and through a perforation in the beam of the plow; and means for securing the said bar at different positions in said slots for the purpose of holding said hopper in a higher or lower position relative to said bar, substantially as and for the purposes described.

3. In a seed planting attachment for plows,

the combination with a hopper provided at its lower end with seed distributing and seed covering devices, and having a slot through its forward wall and a similar slot through its rear wall, perforated plates vertically adjustable over said slots and secured by set screws; of a metal bar provided at one end with a reduced portion and screw threaded to receive a nut, and having a perforation through its opposite end to receive a bolt, the reduced end of said bar being adapted to pass through the perforations in said plates and through said slots and be adjusted vertically in said slots and secured therein by means of said plates, and secured by a nut upon its rear end, and the forward end of said bar being adapted to be attached to the beam of the plow by means of a bolt passing through the perforation therein and through a perforation in the beam of the plow; substantially as and for the purposes described.

4. The combination with a plow beam of the character described, provided with a perforation adapted to receive a bolt near its rear end; of a seed hopper provided with an opening in its lower end for the escape of the seed, and means for regulating the flow of seed there-through, and devices for covering the seed, carried by said hopper; the said seed hopper being detachably connected to said plow beam by means of a metal bar passing through vertical slots in the front and rear walls of said hopper, and secured by means of a nut upon its rear end, and adjustable vertically in said slots, and attached at its forward end by means of a bolt to the beam of the plow, substantially as and for the purposes described.

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

WILLIAM V. PAYNE.

Witnesses:

W. R. SMITH,
S. G. CARTER.