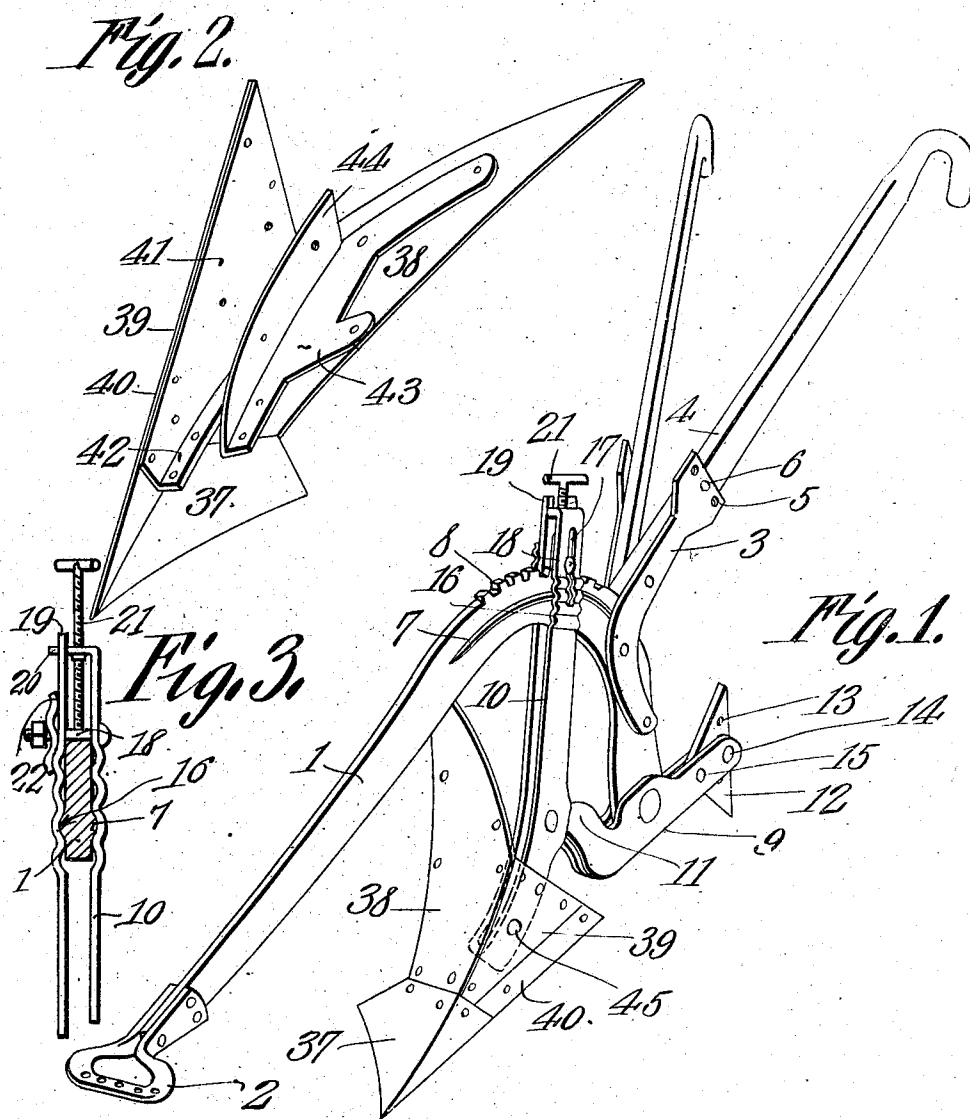


E. M. BUCKHANNAN,
 PLOW.
 APPLICATION FILED NOV. 2, 1908.

941,614.

Patented Nov. 30, 1909.



Witnesses

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EDWARD M. BUCK ANNAN, OF SULPHUR SPRINGS, TEXAS.

PLOW.

941,614.

Specification of Letters Patent. Patented Nov. 30, 1909.

Application filed November 2, 1906. Serial No. 460,721.

To all whom it may concern:

Be it known that I, EDWARD M. BUCK-
ANNAN, a citizen of the United States, re-
siding at Sulphur Springs, in the county of
5 Hopkins and State of Texas, have invented
a new and useful Plow, of which the follow-
ing is a specification.

This invention has relation to plows and
it consists in the novel construction and ar-
10 rangement of its parts as hereinafter shown
and described.

The object of the invention is to provide a
plow in the construction of which the plow
standard is so mounted that it may be swung
15 with relation to the beam and at the same
time may be adjusted vertically with rela-
tion to the beam. By such an arrangement
the plow share and mold board may be pre-
sented at any desired angle to the soil.

20 A further object of the invention is to piv-
otally mount a runner at the rear end of the
beam and also pivotally connect the same
with the plow standard and provide the said
foot or runner with a rudder which is adapt-
25 ed to engage the bottom of a furrow and
steady the plow as an entirety.

In the accompanying drawings:—Figure
1 is a perspective view of the plow, Fig. 2 is
an under perspective view of the plow share.
30 Fig. 3 is a front elevation of the upper por-
tion of the standard, the beam being shown
in section.

The plow includes a beam 1 which is of
the usual crook configuration and to the for-
35 ward end of which is attached a horizontally
disposed clevis 2. Brackets 3 are attached
to the rear end portion of the beam 1 and
the forward ends of handles 4 are con-
nected with the said brackets 3. The rear
40 end of each bracket 3 is provided with a se-
ries of perforations 5 and a bolt 6 is adapted
to pass transversely through any one of the
perforations 5 and the handles 4. By such
an arrangement it is apparent that the han-
45 dles 4 may be swung with relation to the
brackets 3 and secured in an adjusted posi-
tion and at any desired angle with relation
to the said brackets.

Ribs 7 are located upon the vertical sides
50 of the beam 1 at the curved portion thereof
and the said beam is provided at its upper
edge and along its curved portion with
spaced teeth 8. Bars 9 are pivotally con-
nected with the lower rear end of the beam
55 1 and are located upon the opposite sides
thereof. The said bars 9 constitute a runner.

A standard 10 is pivotally connected with
the forward end of the runner 9, the said
forward end of the foot being upwardly dis-
posed as at 11. A rudder 12 is located be- 60
tween the rear end portions of the sides of
the runner 9 and is provided with a series of
perforations 13, any one of which is adapted
to receive a bolt 14 which passes transversely
through the rear end portion of the said run- 65
ner 9. The said rudder 12 is substantially
triangular in side elevation and while its
forward portion is fixed with relation to the
runner 9 by a transversely disposed bolt 15
it is apparent that by removing the bolt 14 70
the rear end portion of said rudder may be
shifted and by replacing the bolt 14 said
rudder is held in an adjusted position. The
object in making the rudder 12 triangular in
shape is that when one of its edges or sides 75
becomes worn it may be reversed or turned
over whereby its other edge may be disposed
below the lower edge of the runner 9.

The standard 10 is made in the form of
an elongated U shaped structure and is pro- 80
vided at its sides with corrugations 16 which
are adapted to receive the ribs 7 mounted
upon the beam 1. The upper end portions of
the sides of the standard 10 are provided
with elongated slots 17 which receive a 85
transversely disposed bolt 18 and which in
turn is adapted to rest within the space be-
tween the teeth 8 mounted upon the beam 1.
One of the sides of the standard 10 is pro-
vided at its upper end with spaced lugs 19 90
and the upper end portion of the other side
of the said standard is disposed toward that
side of the standard upon which the lugs 19
are mounted and the extremity of the later-
ally disposed portion of the side of the 95
standard terminates in a lug 20 which is
adapted to lie between the lugs 19. A set
screw 21 is screw threaded in the laterally
disposed portion and the upper end of the
standard 10 and is adapted to bear at its 100
lower end upon the side of the bolt 18 and
forms means for positively retaining the
said bolt in the spaces between the teeth 8.
A corrugated washer 22 is mounted upon the
bolt 18 and is adapted to engage the corru- 105
gations at one of the sides of the standard
10.

By the arrangement above described it is
obvious that the bars of the runner 9 may
be swung upon their pivotal connection with 110
relation to the beam 1 and by so doing it
will be seen that the standard 10 may be

adjusted longitudinally of its length across the said beam 1. After the said standard has been adjusted longitudinally as described the bolt 18 is seated in a space between adjacent teeth 8 and the nut upon the said bolt 18 is tightened. It will be also seen that prior to securing the bolt 18 as above described the standard 10 may be swung upon its pivotal connection with the runner 9 and thus the said standard may be pitched at a desired angle with relation to the beam 1. It will be seen that the connection between the upper end portions of the standard 10 is such that the said sides may be sprung apart and come together again as the standard is adjusted about the ribs 7 mounted upon the sides of the beam 1.

The plow proper consists of a share 37, a mold board 38 and a land side plate 39. The land side plate is provided at its lower edge with a detachable plate 40 which may be renewed when worn out.

Fig. 2 illustrates how the parts of the plow proper are connected together. A plate 41 is located against the inner side of the land side plate 39 and against the land side portion of the share 37 and is provided with a flange 42 which is adapted to rest against the forward edge of the standard 10. A plate 43 is located under the mold board 38 and the upper portion of the share 37 and is provided with a flange 44 which is adapted to lie against the sides of the standard 10. The plow proper is adapted to be secured to the standard 10 by means of transversely disposed bolts 45 which pass through the lower portion of the standard 10 and the land side plate 39 and plate 41 and the flange 44 of the plate 43. Other securing means may be employed for attaching the plow proper to the standard if desired. Thus a simple and durable plow is provided which may be readily and easily applied to the standard and plow beam as indicated.

Having described my invention what I

claim as new and desire to secure by Letters Patent is:—

1. A plow comprising a curved beam having arcuate ribs upon its sides, a runner pivotally connected with the rear end of the beam, a standard pivotally connected with the forward end of the runner and having at its upper portion, corrugations adapted to receive the ribs upon the beam to permit the standard to be adjusted transversely of the beam and a securing device for fixing the standard with relation to the beam.

2. A plow comprising a curved beam having arcuate ribs, a runner pivotally attached to the rear end of the beam, a standard pivoted to the forward end of the runner and having at its upper portion corrugations adapted to receive the ribs upon the beam, said standard also being provided near its upper end with an elongated slot, a bolt passing transversely through the slot and adapted to engage the beam and means carried by the standard for forcing said bolt into engagement with the beam.

3. A plow comprising a curved beam having arcuate ribs at its sides, a runner pivotally attached to the rear end of the beam, a standard pivotally connected with the forward end of the runner and having at its upper portion corrugations adapted to receive the ribs upon the beam said standard also having an elongated slot at its upper portion, a bolt passing transversely through said slot and adapted to engage the upper edge of the beam and a set screw mounted upon the standard and adapted to engage said bolt and force the same against the edge of the beam.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EDWARD M. BUCKHANNAN.

Witnesses: *

B. A. SMITH,

SIG. WACHOLDER.