

No. 676,978.

Patented June 25, 1901.

W. L. BUSTER.
PLOW ATTACHMENT.

(Application filed Mar. 13, 1901.)

(No Model.)

FIG. 1.

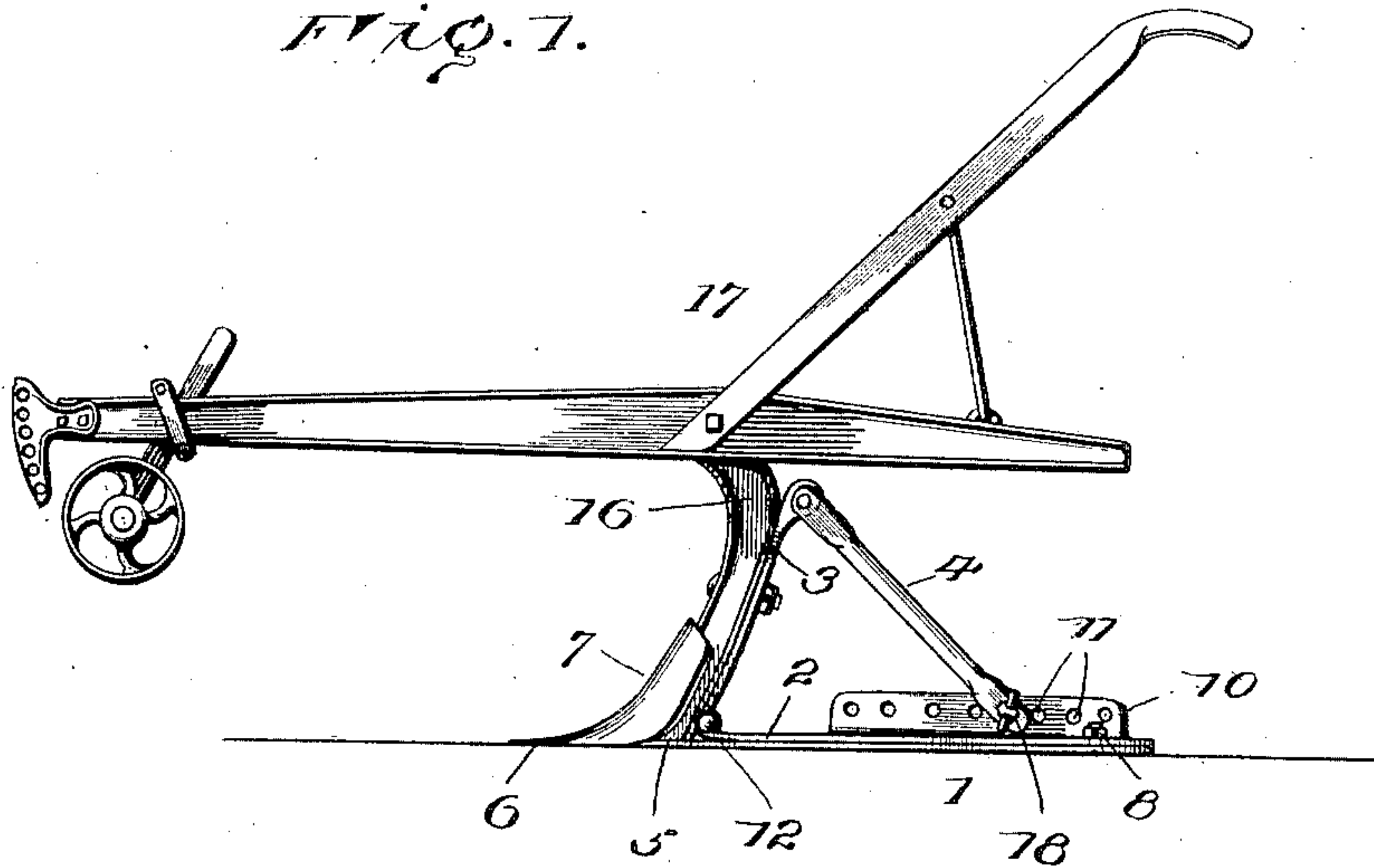


FIG. 2.

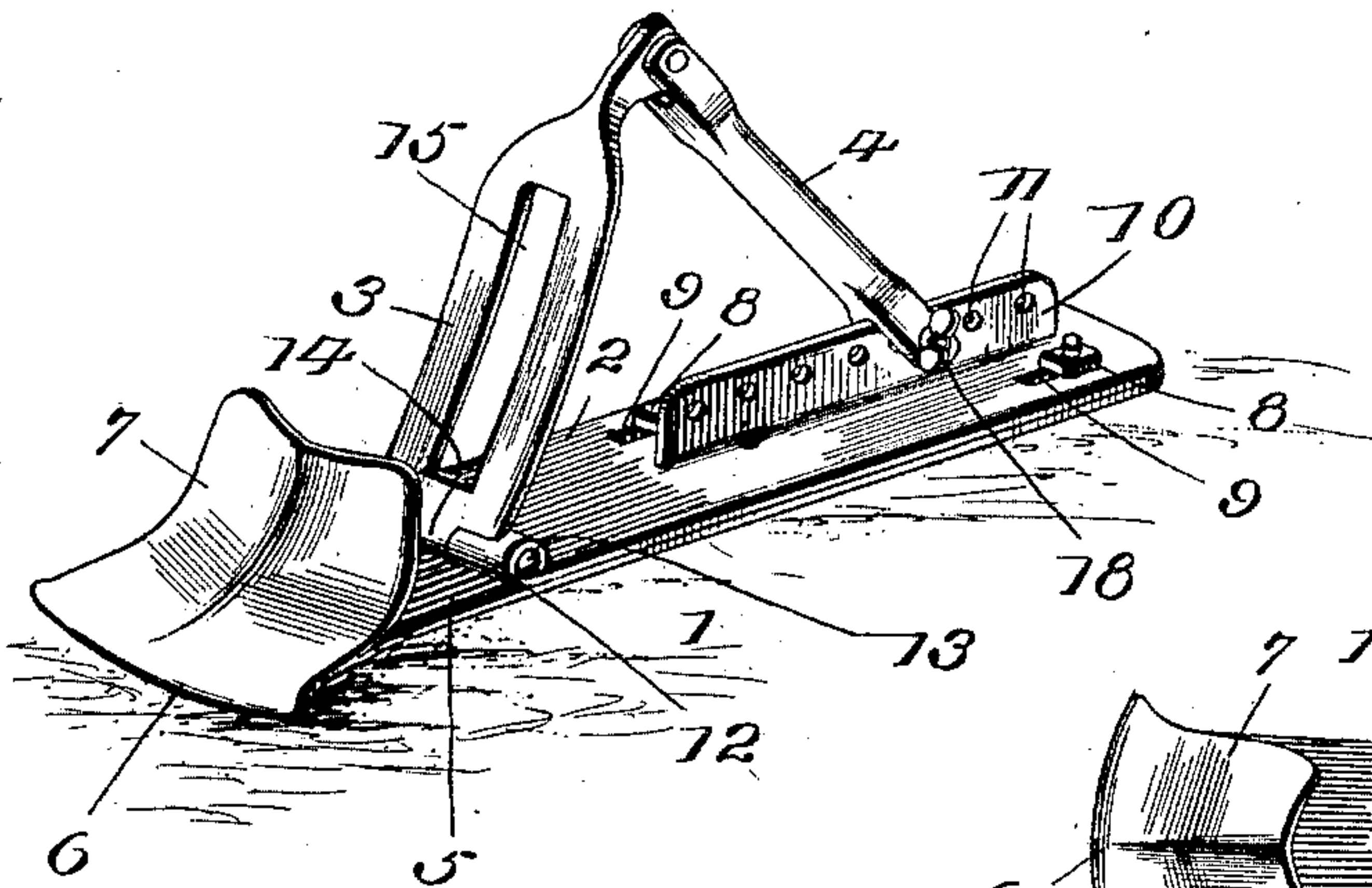


FIG. 3.

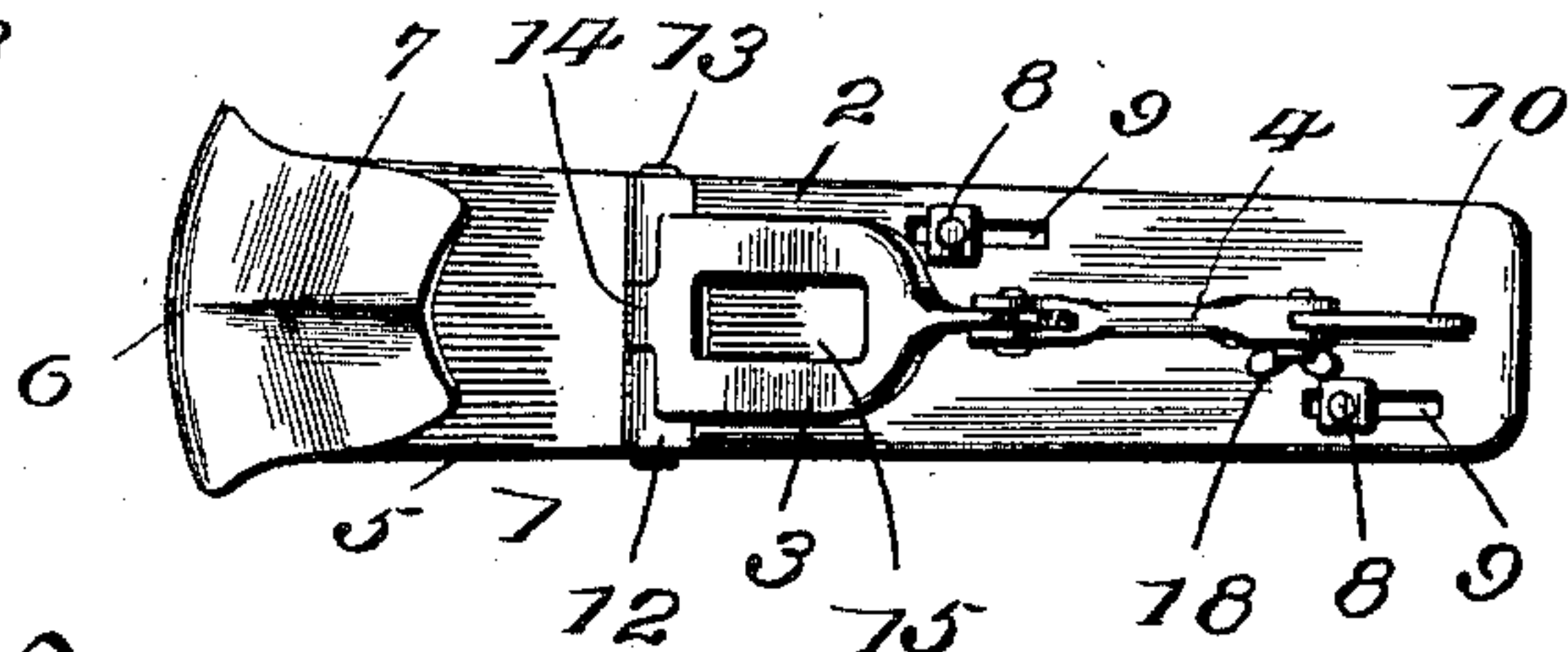
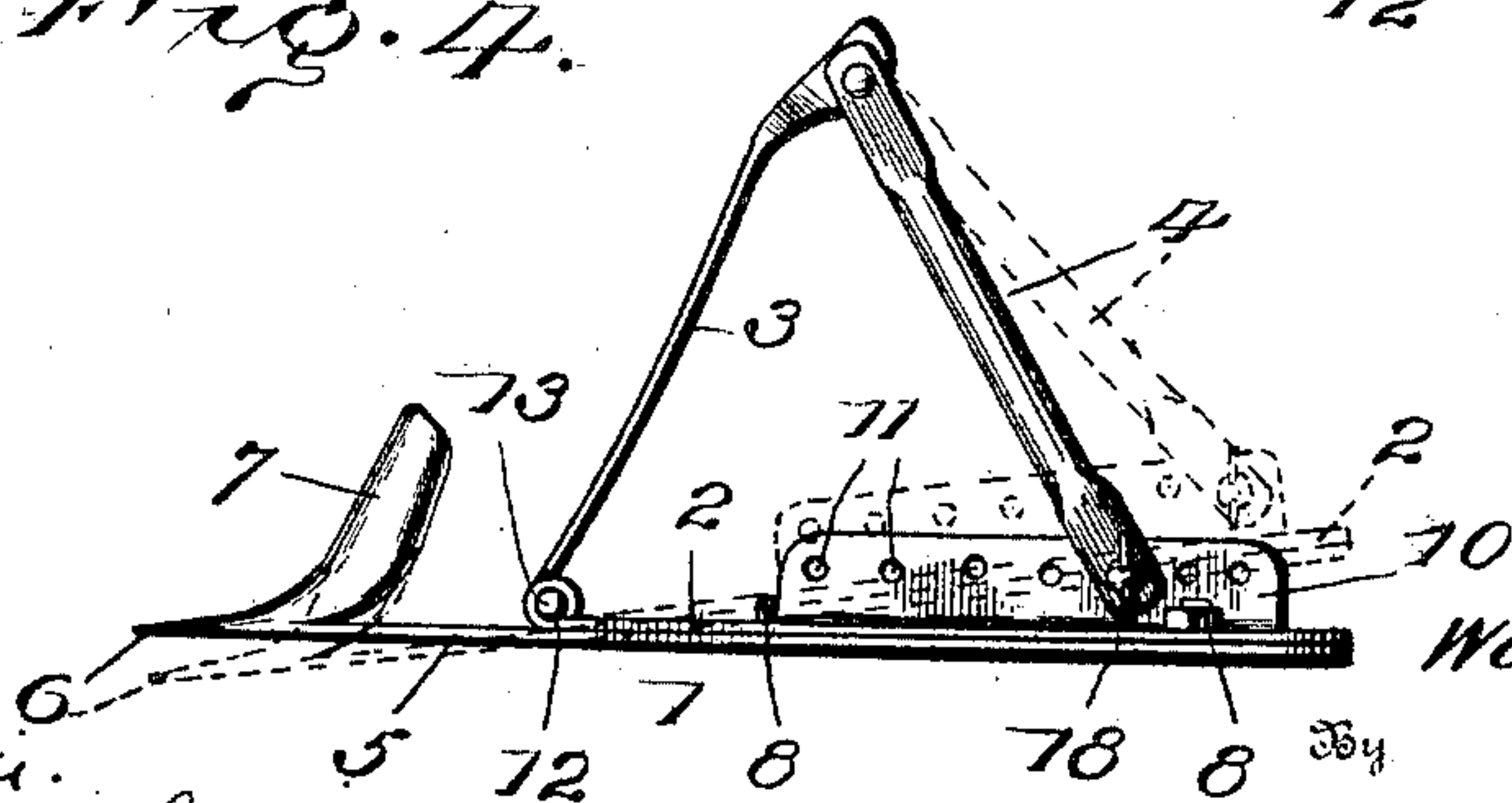


FIG. 4.



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Witnesses

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UNITED STATES PATENT OFFICE.

WALTER L. BUSTER, OF IREDELL, TEXAS.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 676,978, dated June 25, 1901.

Application filed March 13, 1901. Serial No. 50,992. (No model.)

To all whom it may concern:

Be it known that I, WALTER L. BUSTER, a citizen of the United States, residing at Ire-
dell, in the county of Bosque and State of
5 Texas, have invented certain new and useful
Improvements in Plow Attachments; and I
do hereby declare the following to be a full,
clear, and exact description of the invention,
such as will enable others skilled in the art to
10 which it appertains to make and use the same.

This invention aims to provide a shovel or
point attachment for plow-stocks for opera-
tion in turf, stubble, or grubby or rocky soil
and which is adjustable, so as to be set to run
15 deep or shallow, the attachment being par-
ticularly adapted for turning stalks, weeds,
grass, and stubble.

For a full description of the invention and
the merits thereof and also to acquire a
20 knowledge of the details of construction of
the means for effecting the result reference
is to be had to the following description and
drawings hereto attached.

While the essential and characteristic fea-
25 tures of the invention are necessarily suscep-
tible of modification, still the preferred em-
bodiment of the invention is illustrated in the
accompanying drawings, in which—

Figure 1 is a side view showing the attach-
30 ment in position. Fig. 2 is a perspective view
of the attachment. Fig. 3 is a top plan view
thereof. Fig. 4 is a side view, the dotted lines
showing an adjusted position of the opener.

Corresponding and like parts are referred
35 to in the following description and indicated
in all the views of the drawings by the same
reference characters.

The attachment is designed to be fitted to
the stock of any plow or cultivator and com-
40 prises an opener 1, a plate 2, adjustable upon
the shoe or runner of the opener, and bars 3
and 4, hinged to each other and to the plate 2.
The opener consists of a runner or shoe 5 and
a point 6, the latter being comparatively wide
45 and sharpened, so as to readily penetrate the
soil, and having its rear portion curved up-
wardly to form the sweep 7, the side portions
of which incline rearwardly to shed the earth,
stubble, grass, roots, and the like lifted as the
50 device is drawn over the field. The point and
sweep are preferably integral with the run-
ner or shoe 5 and are formed by folding or

bending an end portion thereof upon itself.
The runner or shoe is rather wide and long,
so as to obtain a firm bearing upon the earth 55
and give proper direction to the point when
the device is in active operation.

The plate 2 is longitudinally adjustable
upon the runner or shoe 5 and is held thereto
in the desired position by means of clamp- 60
bolts 8 or fastenings of kindred nature, the
same passing through longitudinal slots 9,
formed in opposite side portions of the plate 2
and at diagonally opposite points. A bar or
plate 10 projects vertically from the plate 2 65
and is provided with a longitudinal series of
openings 11 for adjustable connection of the
bar 4 therewith. The front end of the plate
2 is provided with knuckles 12, in which is fit-
70 ted a pin 13, which passes through a knuckle
14 at the lower end of the bar 3, whereby the
latter is pivotally connected with the plate.
Obviously the bar 3 may be pivotally con-
nected to the plate 2 in any desired manner,
so long as provision is had for adjustment of 75
the plate 2 to change the pitch or inclination
of the runner or shoe 5 and point 6.

The front bar 3 is longitudinally slotted,
as shown at 15, for the reception of the bolt,
by means of which the attachment is secured 80
to the stock 16 of the plow or cultivator 17.
The lower end of the bar 3 is hinged to the
plate 2, and its upper end is hinged or piv-
oted to the bar 4, the lower end of the latter
being cleft or forked, so as to receive the ver- 85
tical bar or plate 10, to which it is adjustably
connected to admit of change in the inclina-
tion or pitch of the point 6 and runner 5. A
pin or bolt 18 is adapted to pass through open-
ings in the fork members of the bar 4 and 90
through any one of the series of openings 11,
so as to connect the bar 4 at its lower end with
the plate in the desired position.

When it is required to use the attachment,
the shovel or sweep is detached from the 95
stock of the plow or cultivator and is replaced
by the attachment, which is secured to the
stock with the lower end of the latter in the
rear of the point 6 and sweep 7, the device
being secured to the stock by a bolt passing 100
through the slot 15 of the bar 3. It is desired
to have the point and sweep rest against the
lower end of the stock; hence the necessity
for the adjustable connection between the

runner or shoe 5 and the plate 2. The pitch or inclination of the point 6 and runner or shoe 5 can be varied to cause the opener to run deep or shallow by adjustably connecting the bar 4 with the plate 10. After the parts have been adjusted they are made fast by tightening the bolts or fastenings 8.

Having thus described the invention, what is claimed as new is—

10 1. A plow attachment comprising an opener consisting of a point and a shoe, a bar for cooperation with the said point to clamp the lower end of the plow-stock, means for pivotally connecting the bar at its lower end with
15 the forward portion of the shoe, a second bar having pivotal connection with the upper end of the first-mentioned bar, and means for adjustably connecting the said second bar at its lower end with the rear portion of the shoe,
20 substantially as set forth.

2. A plow attachment comprising an opener, a plate having adjustable connection with the shoe of the opener, oppositely-inclined bars pivoted to each other and to the front portion of the said plate, and means for adjustably connecting the lower end of the rear bar with the rear portion of the said plate, substantially as set forth.

3. In a plow attachment, and in combination with the opener, a plate adjustable upon the shoe of the opener, a vertical plate provided upon the rear portion of the adjustable plate and having a longitudinal series of openings, a bar having pivotal connection at its lower end with the front portion of the adjustable plate, and a second bar having pivotal connection with the first-mentioned bar and having adjustable connection with the vertical plate, substantially as set forth. 30 35

4. A plow attachment comprising a runner having a point and sweep at its front end, a horizontal plate adjustable upon the runner and provided with a vertical plate upon its rear portion, a bar pivoted at its lower end to the front portion of the horizontal plate, and a second bar pivoted to the first-mentioned bar and having adjustable connection at its lower end with the aforesaid vertical plate, substantially as set forth. 40 45

In testimony whereof I affix my signature in presence of two witnesses. 50

WALTER L. BUSTER. [L. S.]

Witnesses:

J. E. WARE,
W. L. DOYAL.