

(No Model.)

2 Sheets—Sheet 1.

S. H. TINSMAN.
SULKY PLOW.

No. 476,579.

Patented June 7, 1892.

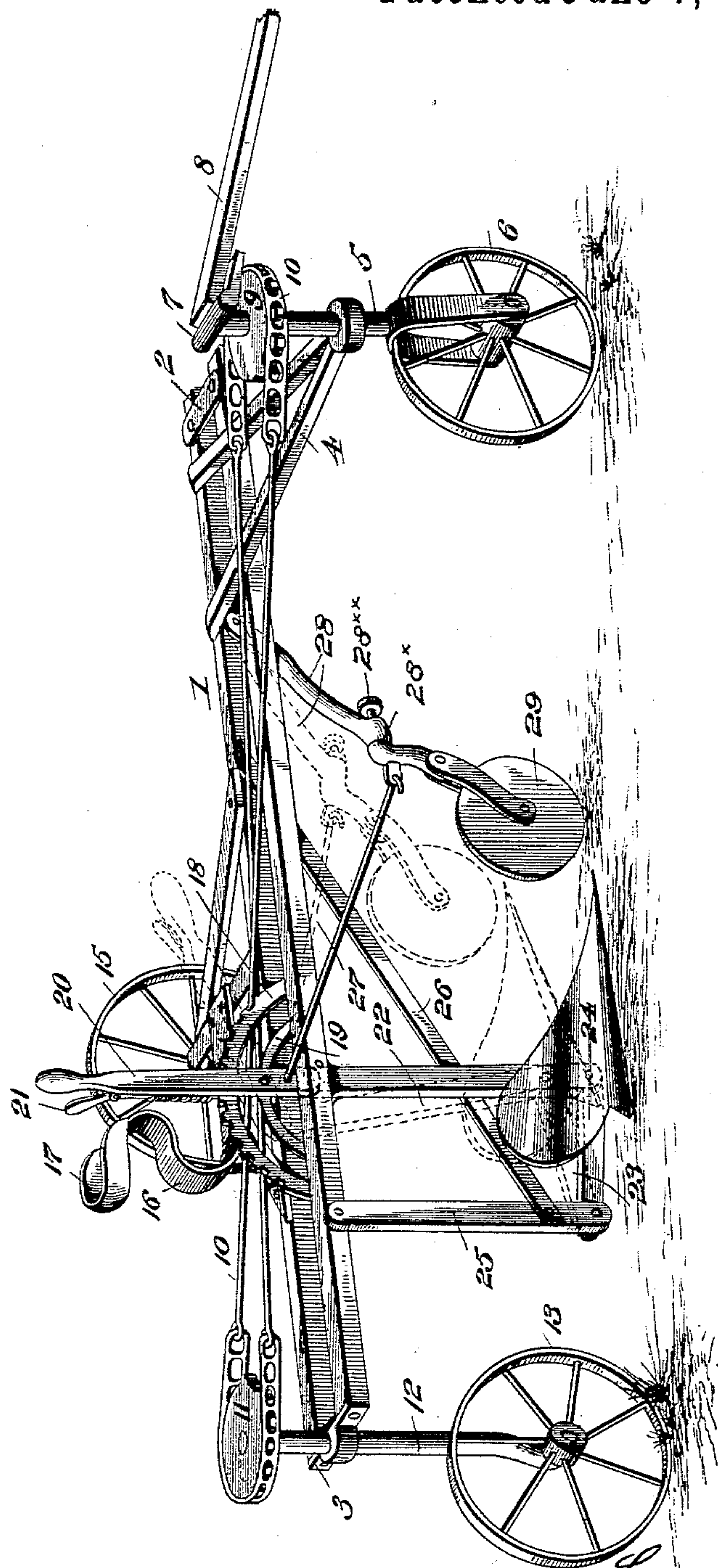


fig.

Witnesses:

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(No Model.)

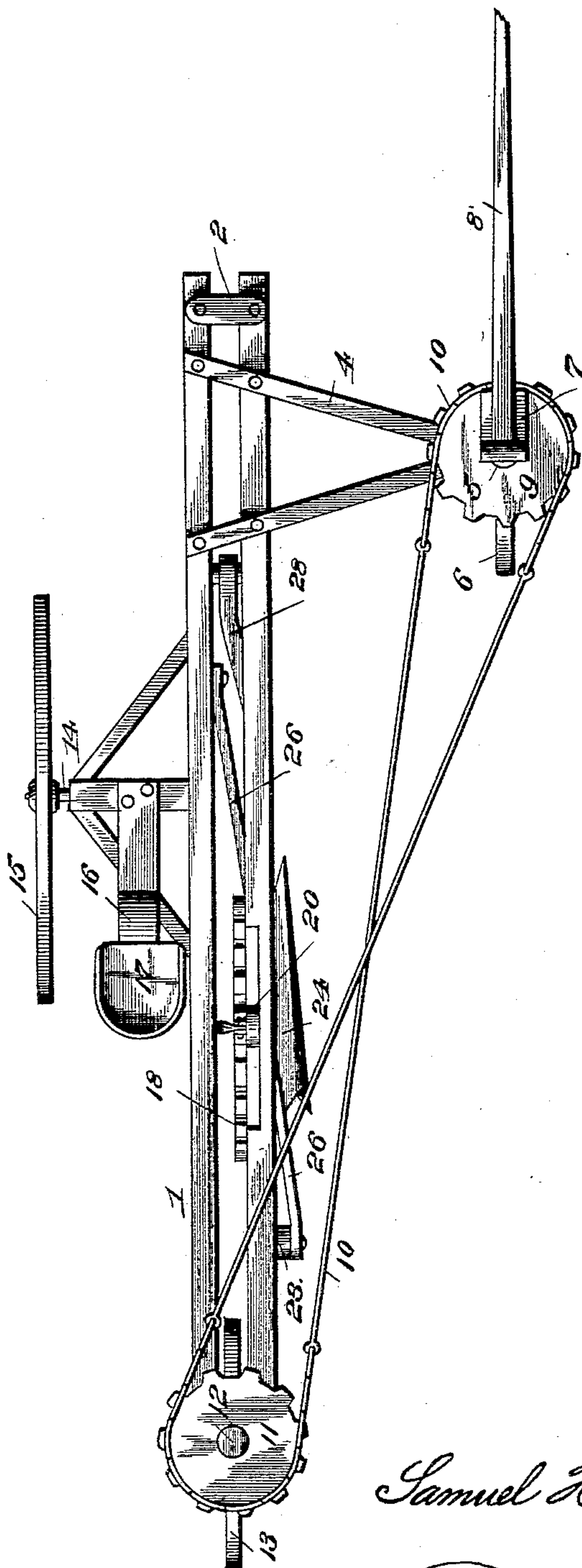
2 Sheets—Sheet 2.

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Fig. 2.



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UNITED STATES PATENT OFFICE.

SAMUEL H. TINSMAN, OF MORRIS, ILLINOIS.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 476,579, dated June 7, 1892.

Application filed February 15, 1892. Serial No. 421,580. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL H. TINSMAN, a citizen of the United States, residing at Morris, in the county of Grundy and State of Illinois, have invented certain new and useful Improvements in Sulky-Plows; 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in plows, and relates especially to what may be termed "sulky" or "riding" plows.

One object of my invention is the provision of a plow which will be light in weight, so as to be easily drawn over the ground, which will comprise few parts, rendering the same simple and durable in construction, and consequently comparatively inexpensive of production.

Another object of my invention is the provision of a plow which can be easily manipulated by one person to cause the point to make a furrow of any desired depth or be thrown out of operation, as may be desired.

Another object of my invention is the provision of a durable, cheap, and effective plow which will be compact and light in weight and in which the operative element or part can be folded to occupy a small space, whereby the plow can be readily and easily transported.

To attain the desired objects the invention consists of a plow embodying novel features of construction, combination, and arrangement of parts for service, as will be disclosed herein.

In order that the construction, operation, and advantages of my improved plow may be readily understood, I have illustrated my invention in the accompanying drawings, in which—

Figure 1 represents a perspective view of a plow constructed according to my invention, the parts being shown in full lines in operative position and in dotted lines as they appear when not in use; and Fig. 2 represents a top plan view of the plow.

Referring by numerals to the drawings, 1 designates the frame of my plow, comprising the two parallel longitudinal bars, preferably formed of metal and having the ends connected by the plates 2 and 3.

Projecting laterally from the forward end of the frame is the bracket or arm 4, in which is mounted the shaft 5, having the bearings for the supporting-wheel 6, and on the end of said shaft is secured the plate or clevis 7, to which the draft-pole 8 is connected. Also on said shaft is secured the sprocket-wheel 9, over which passes the sprocket-chain 10 and from thence to the sprocket-wheel 11, carried by the shaft 12, having the rear supporting-wheel 13. To the opposite side of the frame is secured the axle 14, on which is mounted the supporting-wheel 15, said axle being suitably braced to the main frame and also receiving the seat-support 16, carrying a seat 17. From this construction it will be seen that I provide a light and durable frame which is properly supported, with the forward supporting-wheel out of the path of the plow, and that the supporting-wheels are movable and so connected that the plow may be guided or turned in any direction, as may be found desirable and convenient.

Secured to the frame is the curved rack-bar 18, and below the same the curved plate 19, to which is pivoted the hand-lever 20, adapted to be adjusted and retained at any point on the rack-bar by means of the spring-detent 21. To the lower end of the lever is connected the arm 22, which arm is connected to the bar 23, carrying the plow-point 24, and said arm 23 is pivoted to the upright 25, which is securely braced by the inclined bar 26, secured to the frame, as shown. From this construction it will be seen that the hand-lever is within easy reach of the driver and can be operated to cause the plow to enter the ground to any desired depth or to elevate the plow out of position for use, as is evident. Connected to said lever near the lower end is the rod 27, the lower end of said rod being connected to the arm 28, carrying the colter-wheel 29, arranged slightly in advance of the plow, and it will be observed that by reason of its connection with its hand-lever it will be thrown into position for use or out of use, accordingly as the plow

is used. The colter-wheel is swiveled at 28°, and can thus be moved when desired and held by the set-screw 28°.

It is evident that I provide a plow which is light of draft and which can be easily controlled by the operator or user to plow to any desired depth or be thrown out of operation and be guided or turned with ease in any direction. It is also evident that I provide a plow which is strong, durable, and effective, which can be easily and readily transported from any place, and which is inexpensive, thus possessing all the features of merit to commend the plow as practicable and useful.

I claim as my invention—

1. A plow consisting of a frame, the bracket extending outward therefrom, the shaft carrying the supporting-wheel and mounted therein, the sprocket-wheel carried by said shaft, the shaft carrying the supporting-wheel and sprocket-wheel and mounted at the rear of the frame, the sprocket-chain engaging said sprocket-wheels, the axle carrying the supporting-wheel, the vertical and inclined brace-bars having their upper ends connected to the frame and their lower ends adjacent, forming a rigid frame, the short bar connected to the vertical brace at one end, the plow-point connected to the other end of the short bar, the vertical hand-lever having its lower end con-

nected to the plow-point, the colter-arm pivoted to the frame, and the rod connecting the arm and hand-lever, substantially as described.

2. A plow consisting of a frame, the supporting-wheel, the sprocket wheels and chain, the curved rack-bar secured to the frame, the plate secured to the frame, the lever pivoted to said plate and carrying the spring-detent for engaging the rack-bar, the arm or bar connected to said lever, the plow connected to said arm or bar, the vertical brace-arm connected to said bar and the frame, the inclined brace-bar connected to the frame and the vertical bar, the rod pivoted to the frame, the rod carrying the colter-wheel and swiveled in said rod, the screw for securing the rod, and the rod connected to the hand-lever and swiveled rod, all adapted to operate as described.

3. In a plow, the combination of the vertically-movable arm with the arm carrying the colter-wheel and swiveled to the vertically-movable arm, and a set-screw for retaining the swiveled colter-arm.

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

SAMUEL H. TINSMAN.

Witnesses:

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F. C. CLOVER.