

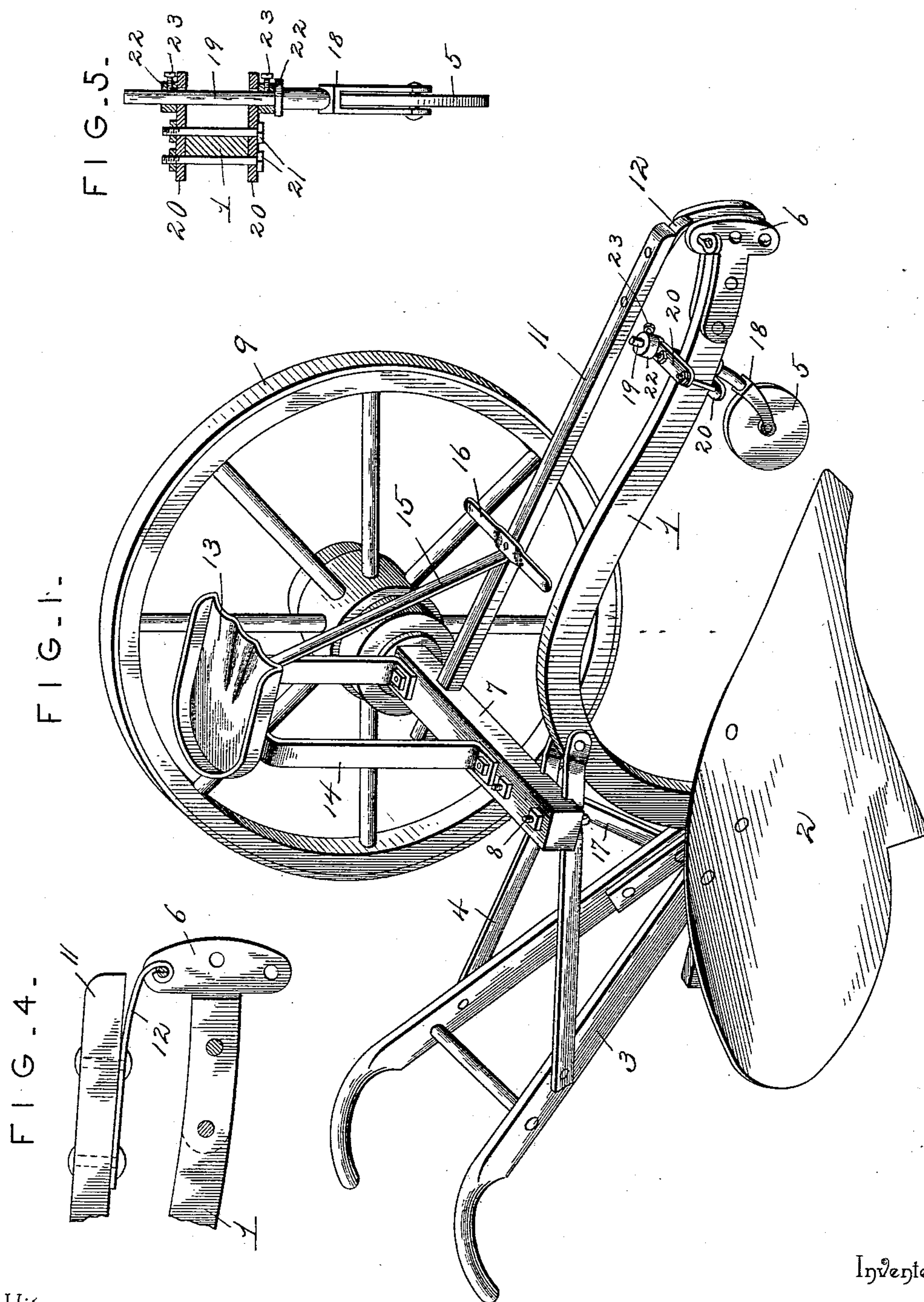
(No Model.)

2 Sheets—Sheet 1.

W. H. RICHTER.
PLOW.

No. 563,065.

Patented June 30, 1896.



Inventor

William H. Richter.

By *His* Attorneys,

Ca Snow & Co.

Witnesses

Harry L. Amer.
V. B. Hillyard.

(No Model.)

2 Sheets—Sheet 2.

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FIG. 2.

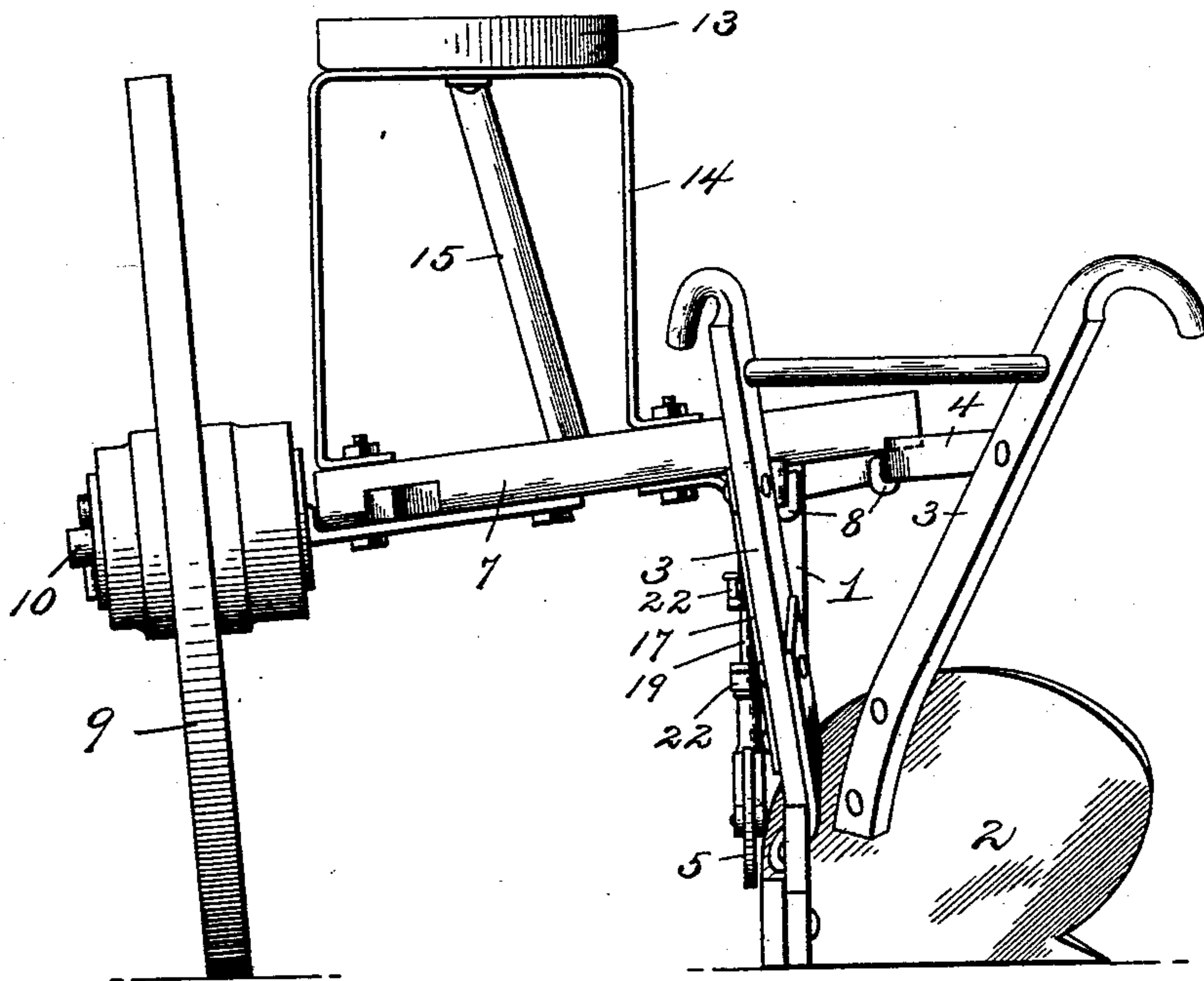
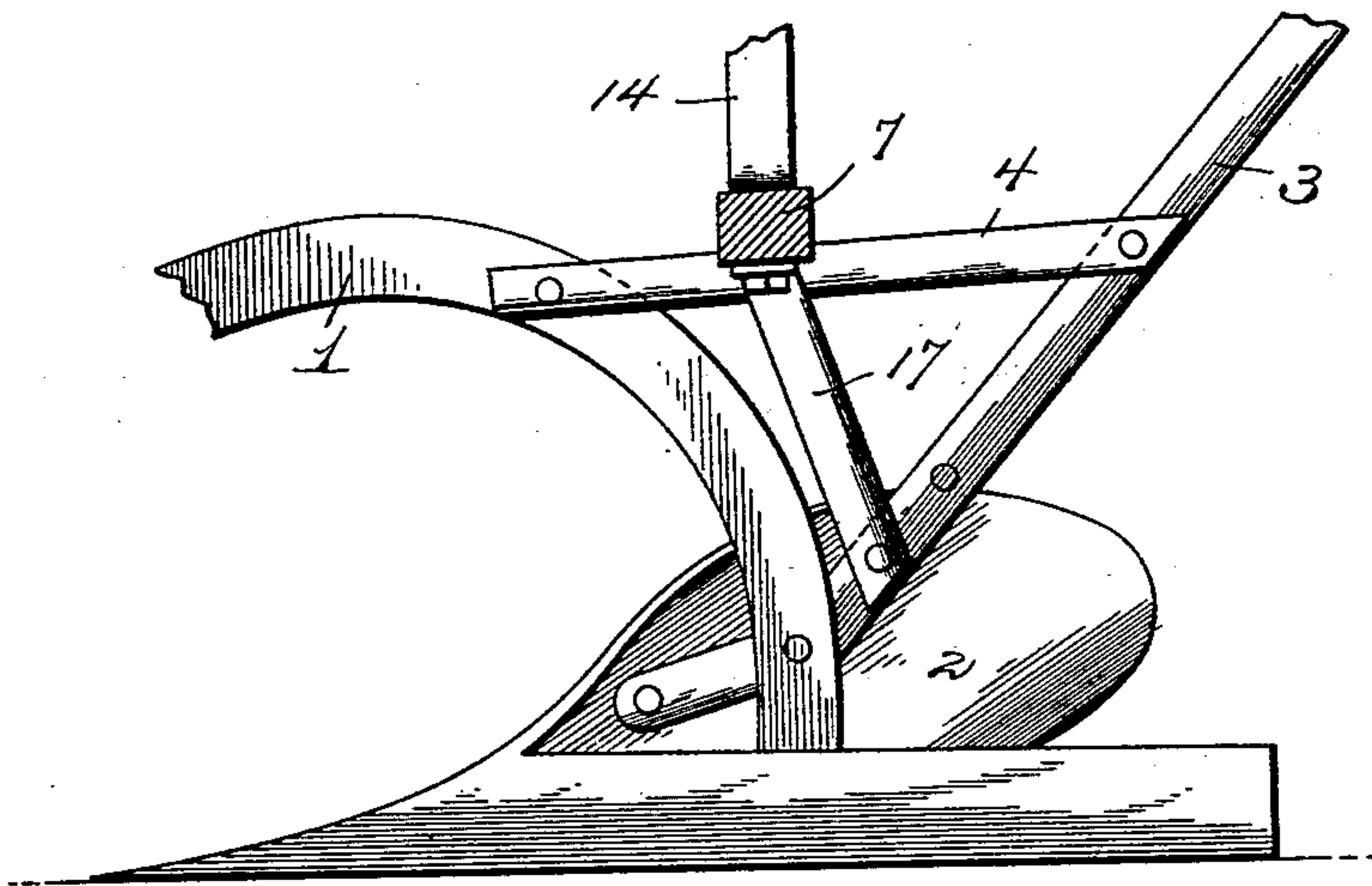


FIG. 3.



Inventor

Witnesses

Harry L. Amer.
U. B. Hillyard.

By *his* Attorneys,

William H. Richter.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

WILLIAM H. RICHTER, OF BLUE RIDGE, MISSOURI.

PLOW.

SPECIFICATION forming part of Letters Patent No. 563,065, dated June 30, 1896.

Application filed December 7, 1895. Serial No. 571,392. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. RICHTER, a citizen of the United States, residing at Blue Ridge, in the county of Harrison and State of Missouri, have invented a new and useful Plow, of which the following is a specification.

The purpose of this invention is to provide an ordinary walking-plow with a riding attachment, whereby the plowman can ride and at the same time apply his weight for holding the plow down to its work. A further advantage is to relieve the landside of undue friction, thereby lessening the draft usually required for drawing the usual walking-plow over the field.

Other objects and advantages are contemplated and will appear as the nature of the improvement is unfolded, and to a full appreciation of the same reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a walking-plow having the attachment applied thereto. Fig. 2 is a rear elevation. Fig. 3 is a side view, parts being broken away. Fig. 4 is a detail view showing the spring connection between the diagonal brace of the riding attachment and the plow-beam. Fig. 5 is a detail view of the provisions for attaching the gage-wheel to the plow-beam and admitting of the vertical adjustment thereof.

The same reference-numerals denote similar and corresponding parts in all the figures of the drawings.

The walking-plow illustrated is of usual construction and comprises the beam 1, mold-board 2, handles 3, braces 4 between the handles and the beam, gage-wheel 5, and clevis 6.

The riding attachment consists of a short stout beam 7, extending about at right angles to the beam 1 and secured at its inner end to the braces 4 by means of hooked bolts 8, the lower side of the beam having grooves to receive the upper edges of the braces 4, so as to prevent any possible slipping; a ground-

wheel 9, loosely mounted upon a spindle 10, secured to the outer end of the beam 7; a diagonal brace 11, having attachment at its rear end to the beam 7, near its outer end, and provided at its front end with a spring 12, by means of which it has attachment with the clevis 6, and a seat 13, mounted upon an arched standard 14, rising from the beam 7 and strengthened by a stay 15, running from the upper end of the standard 14 and secured to the diagonal brace 11 a short distance in front of the said beam 7. A foot-rest 16 is attached to the diagonal brace 11 in front of the stay 15 and affords a support for the driver's feet when perched upon the seat 13. A brace 17 is interposed between the beam 7 and the lower portion of the handles 3, and is designed to strengthen and stiffen the beam 7 and to hold the plow in proper position.

The gage-wheel 5 is journaled in a frame 18, whose shank 19 passes vertically through openings in parallel plates 20, held upon the beam 1 by vertical bolts 21, and this gage-wheel is vertically adjustable by means of collars 22, secured upon the shank 19 by means of binding-screws 23, or in any other convenient manner. These collars 22 are arranged exterior to the plates 20, and being attached to the shank 19 limit the vertical movements thereof. The plates 20 are placed the one above and the other below the beam 1, and the bolts 21 extend along opposite sides of the said beam and pass through registering openings in the plates 20 and secure the latter in the located position. By adjusting the gage-wheel 5 vertically the depth of the furrow can be regulated in the usual way, as will be readily understood.

The spring connection 12 between the clevis 6 and the front end of the diagonal brace 11 admits of a vibratory movement of the front end of the beam 1 without imparting any unusual amount of jolt or jar to the driver, thereby adding materially to the comfort of the rider.

The attachment can be applied to any ordinary plow, and is exceedingly simple and light and will not increase the load or draft, because of the diminished friction of the landside, and will add materially to the ease and comfort of the driver, as will be readily comprehended.

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

1. The combination with a walking-plow, of a riding attachment comprising a transverse beam rigidly secured at its inner end to the plow and having a ground-wheel at its outer end, a seat mounted upon the transverse beam, a rigid brace connected at its rear end with the transverse beam near its outer end and extending forwardly and inclining toward the front end of the plow-beam, and a spring capable of yielding vertically connecting the front end of the brace with the plow-clevis, whereby the front ends of the plow-beam and brace are adapted to move or vibrate independently of each other in a vertical direction, substantially as set forth for the purpose described.

2. The combination with a walking-plow, of a transverse beam secured at its inner end to

the handle-braces and having a ground-wheel at its outer end, a vertical brace interposed between the transverse beam and the lower portion of the handles, a standard rising vertically from the transverse beam and provided at its upper end with a seat, a diagonal brace extending from the outer end portion of the transverse beam, a spring connection uniting the front end of the diagonal brace with the clevis, a stay for bracing the seat-standard, and a foot-rest at the lower end of the said stay, substantially as set forth for the purpose described.

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

WILLIAM H. RICHTER.

Witnesses:

J. P. HAMILTON,

J. H. PRENTISS.