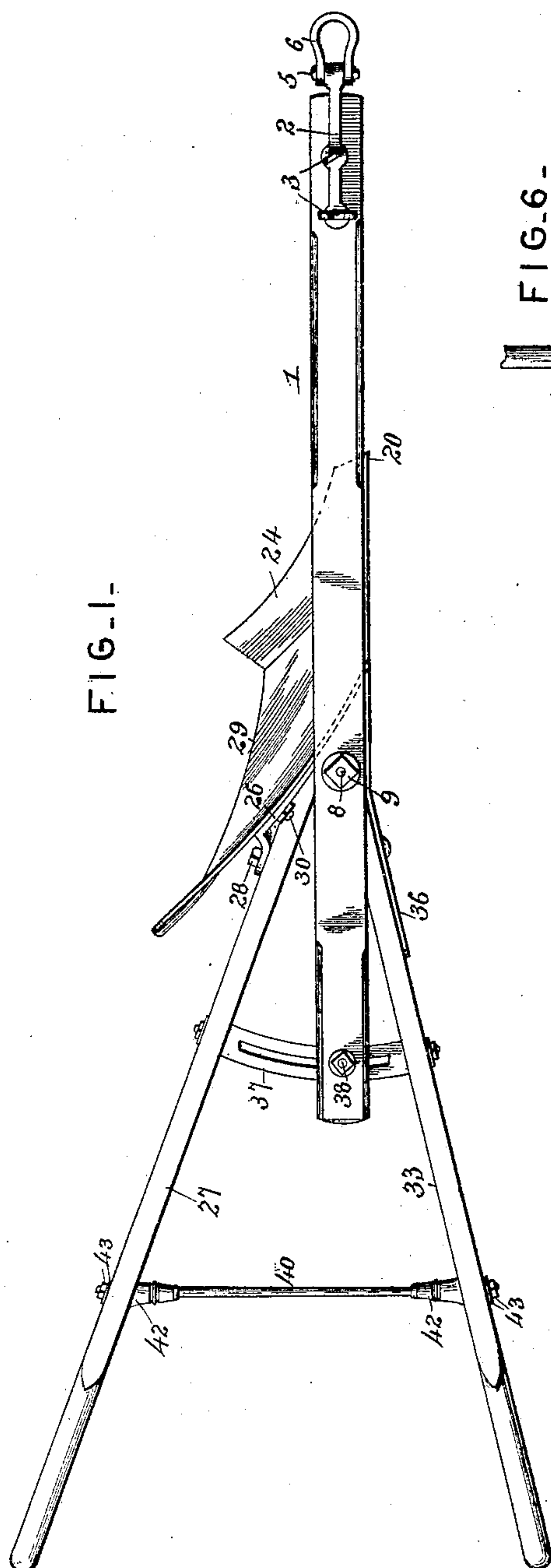


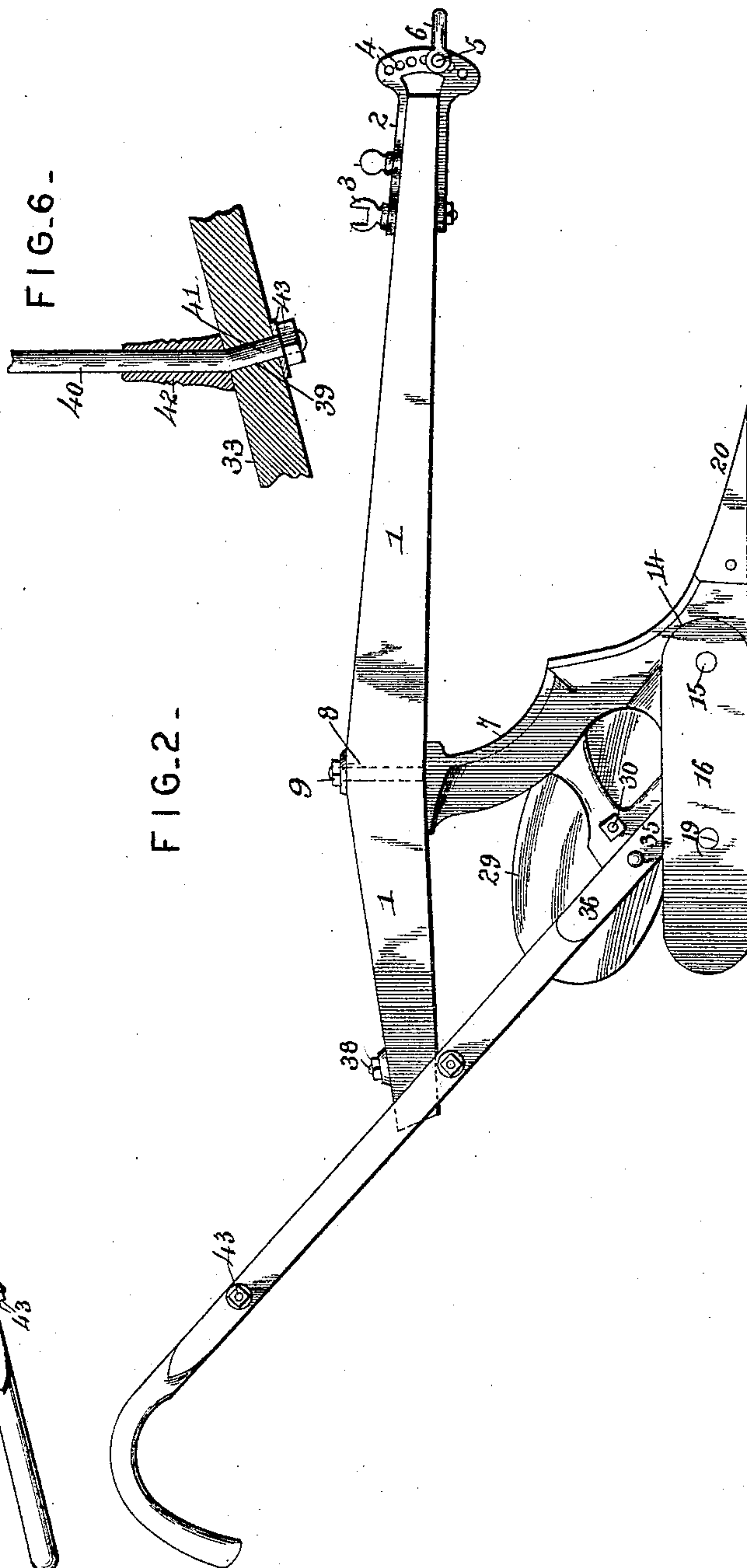
2 Sheets—Sheet 1.

No. 486,515.

Patented Nov. 22, 1892.



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Witnesses

Jas. H. McLaughlin  
John H. Tiggers,

Inventor

*Chapin Wagner*

By *his* Attorneys,

CA Snow & Co.

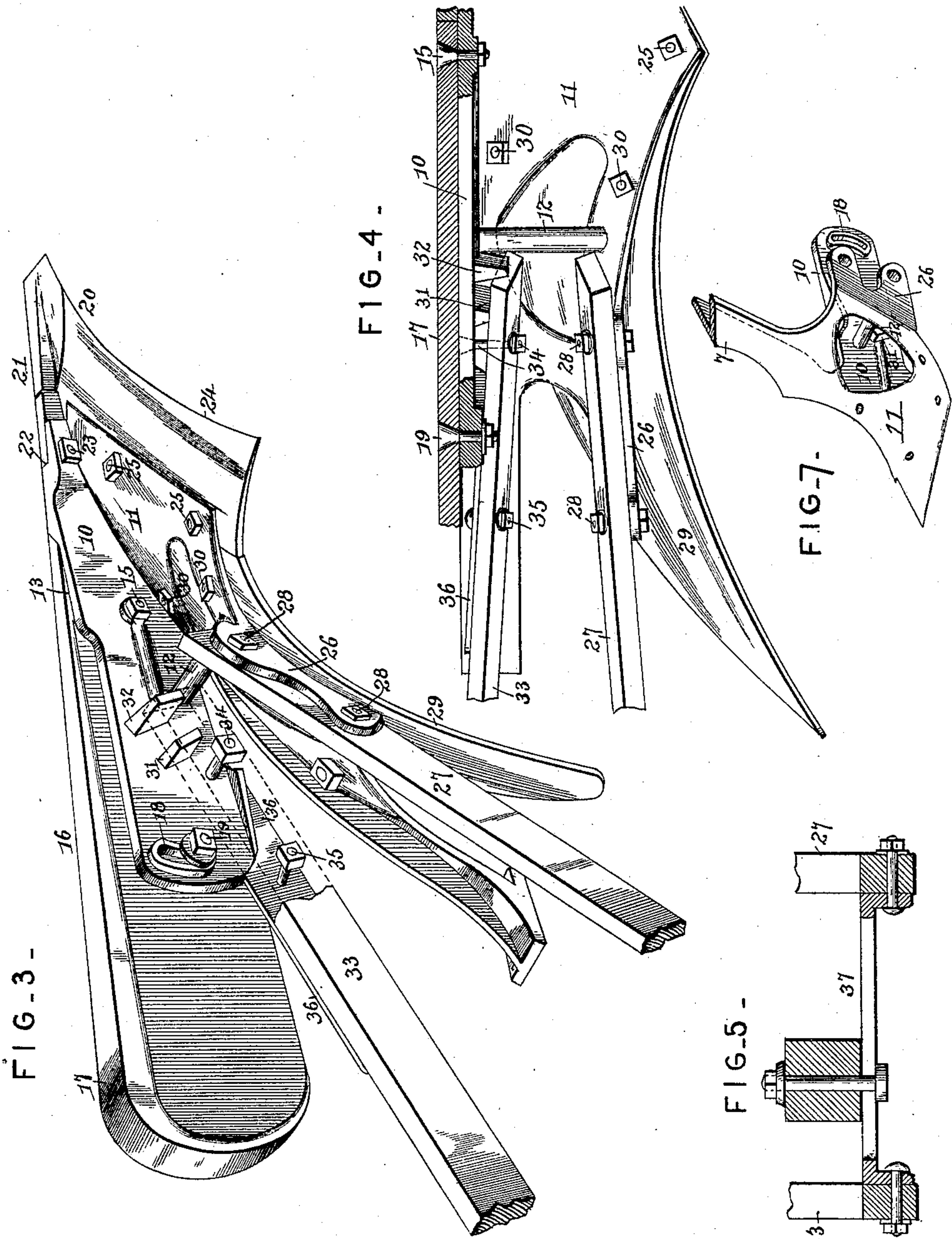
(No Model.)

2 Sheets—Sheet 2.

C. WAGNER.  
PLOW.

No. 486,515.

Patented Nov. 22, 1892.



Witnesses

*Jas. E. McClintock*  
*John R. Liggers*

By *his* Attorneys,

Inventor

*Chapin Wagner*

*C. A. Snow & Co.*



# UNITED STATES PATENT OFFICE.

CHAPIN WAGNER, OF VERNON, INDIANA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 486,515, dated November 22, 1892.

Application filed April 28, 1892. Serial No. 431,008. (No model.)

*To all whom it may concern:*

Be it known that I, CHAPIN WAGNER, a citizen of the United States, residing at Vernon, in the county of Jennings and State of Indiana, have invented a new and useful Plow, of which the following is a specification.

My invention relates to improvements in plows, the objects and advantages of the same, together with the novel features thereof, being hereinafter described and particularly pointed out in the claims.

In the drawings, Figure 1 is a plan view of a plow embodying my invention. Fig. 2 is a side elevation, the view being taken from the landside of the plow. Fig. 3 is a bottom perspective. Fig. 4 is a bottom plan and partial section, portions being broken away. Fig. 5 is a transverse section through the curved adjusting-plate and rear end of the beam. Fig. 6 is a longitudinal section of a portion of one of the handles and the intermediate rung. Fig. 7 is a detail in perspective of the lower portion of the plow-standard, or, in other words, the foot.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates the beam, and the same is provided at its front end with an ordinary draft-clevis 2, secured in position by bolts 3, and having the series of draft-holes 4, in which the bolt 5 of a shackle 6 is removably and adjustably mounted.

The inclined plow-standard 7 has its upper end reduced to form a stud 8, which passes up through an opening formed in the beam and is secured in position by a nut 9. The plow-standard is cast and inclined as shown, and at its lower end merges into the foot. This foot comprises a vertical landside portion 10, and a mold-board portion 11, concaved upon its upper side and inclined. The landside and mold-board portions of the foot are braced by a transverse bar 12, cast integral therewith. The landside portion of the foot, just in rear of its front end, is provided with a reduction or recess 13, the front end of which is curved at 14, and as best shown in Fig. 2. Concentric with this curved wall 14, a bolt 15 is passed through the landside portion 10 and also through the landside bar or heel 16. This bar or heel 16 has its lower edge widened to form a runner 17,

and extends some distance in rear of the landside portion 10 of the foot. Concentric with the bolt 15 the landside portion 10 is provided with a curved slot 18, near its rear end, and a bolt 19 passes through the slot and through the landside bar or heel 16. It will be obvious that by lowering the bar or heel 16, the point will be made to operate more deeply, which depth of penetration is also aided by a proper adjustment of the shackle 6 in the clevis 2. Such adjustments of the landside or heel, it will be obvious, may be readily secured by a simple loosening of the bolt 19, said landside working at its front end upon the pivot-bolt 15.

20 designates the point of the plow, and the same has its landside-flange 21 let into a recess 22, formed in the landside of the foot, the two landsides of the foot and point being securely bolted at 23. The mold-board portion of the point, (designated as 24,) overlaps the lower edge of the mold-board portion of the foot, and the two are securely bolted by a pair of bolts 25. The mold-board portion 11 of the foot, near its rear end, is provided with a flange 26, arranged at an angle to the mold-board portion, and said flange is provided with a pair of bolt-openings. At the inner side of this flange a handle 27 is located, and through the handle and the bolt-opening of the flange 26 a pair of bolts 28 is passed.

29 designates the mold-board proper, which by bolts 30 is secured to the mold-board side of the foot above the point. By means of this flange 26 a space intervenes between the mold-board proper and the flange, whereby access to the nuts of the bolt 28 may be had. The inner face of the landside portion of the foot is provided with a pair of lugs 31 and 32, arranged in diagonal alignment, the latter lug being longer than the former and both being inwardly disposed. The second handle 33 abuts at its lower end against the lug 32 and near its lower end rests against the lug 31. Through the handle and landside portion 10 of the foot a clamping-bolt 34 is passed, the same being immediately above the before-mentioned pair of lugs. A metal plate 36 is located on the outside of the handle 33, immediately above the landside, as shown best in Figs. 2 and 3, and the said plate is secured in position by a single bolt 35. This plate



has its lower edge beveled, and the same rests upon the landside portion 10 at the upper edge of the latter. Interposed between the two handles is a curved or segmental bar 37, the same being concentrically curved with relation to the bolt or stud 8, upon which the beam is pivoted with relation to the standard. This plate 37 has a pair of flanges 38 formed at its ends, which are bolted at 39 to the two handles 27 and 33. Between its ends the plate is slotted concentric with the bolt 8, and upon the plate rests the rear end of the beam 1. By means of a bolt 38 passing through the rear end of the beam and the slot of the plate it will be obvious that said rear end may be adjusted so that the line of draft of the plow may be altered and regulated at the will of the operator.

As best shown in Fig. 6, the handles 27 and 33 are provided with holes 39, bored at a right angle to the handles, or, in other words, directly transverse. Through these holes extend the ends of a rung 40, the ends of which are therefore necessarily bent at 41 to conform to the holes. Shoulders 42 are formed upon the rung 40 immediately in rear of the bends, and the outer ends of the rungs beyond the handles are threaded and provided with combined clamping-nuts and washers 43, by which said handles may be bound or clamped snugly against the shoulders.

From the foregoing description, in connection with the accompanying drawings, it will be seen that I have provided a plow possessing great strength and durability, which may be adjusted to compensate for wear of the landside, may be set to run a desired depth, is capable of lateral adjustment, and the handles of which may be used when the plow is either a right or left handed one, are interchangeable, and when broken or impaired may be replaced by any ordinary plow-handle.

It is to be understood that the several features of my improvement in plows are capable of use separately and independently of one another, and I therefore do not wish to be understood as limiting myself to the combination of them all as a whole in one plow.

Having described my invention, what I claim is—

1. The combination, with the standard having the integrally-formed foot at its lower end, the same consisting of the landside and mold-

board portions, the former being provided with a short and a long inwardly-disposed lug and the latter provided near its rear end with a diverging flange having bolt-openings, of a pair of handles, similar interchangeable bolts passed through the openings of the flange and one of the handles, the remaining handle resting against the end of the short lug and the rear inner corner of the landside and abutting against the upper side of the long lug, and a bolt passed through said handle in rear of the lug and through the landside of the plow, substantially as specified.

2. The herein-described improved plow-foot, the same consisting of the vertical landside provided upon its exterior in rear of its point with a recess having a curved front end, a concentric bolt-opening, and at its rear end provided with a slot concentric with the bolt-opening, and further consisting of the opposite concaved landside, from the upper end of which extends a handle-receiving flange, the point of the foot being provided upon its exterior and landside with a share-receiving recess, and a transverse brace extending from the inner side of the landside to the corresponding side of the mold-board side, said brace, mold-board side, and landside being all cast integral, substantially as specified.

3. The combination, with the cast-metal standard terminating at its lower end in a foot comprising a landside and mold-board side, the former being recessed at its front end to receive a point or share and in rear of the same having a shallow recess to receive a supplemental landside, and the mold-board having its upper end extended and flanged to receive a handle, of a handle secured to the landside, a similar handle secured to the flanged mold-board extension, a supplemental landside adjustably mounted in the recess of the landside of the foot, and a share bolted in the recess of the landside at the front end thereof and overlapping and extending above the lower end of the mold-board side, substantially as specified.

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

CHAPIN WAGNER.

Witnesses:

BEN F. TWEEDY,  
CHAS. BOLSER.