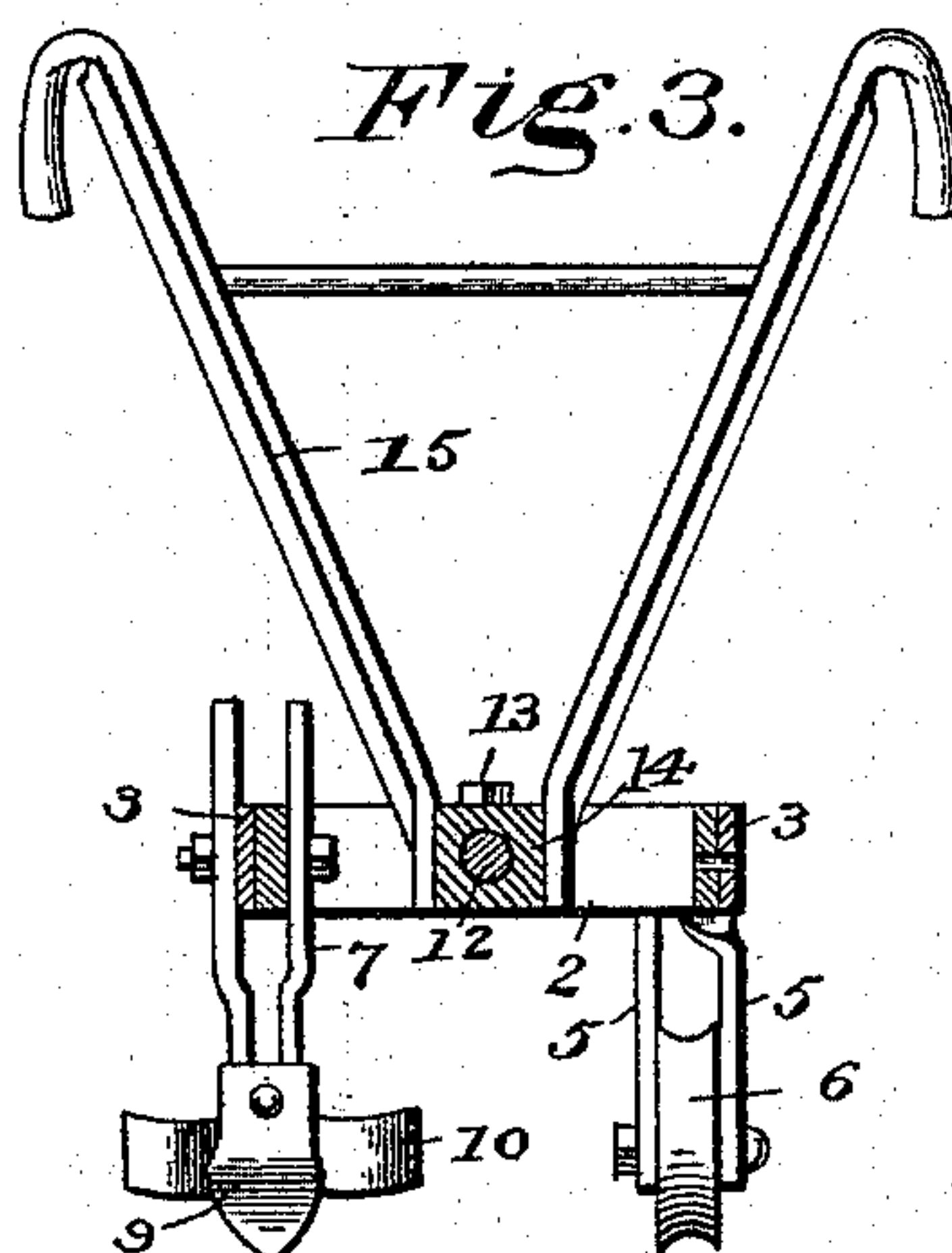
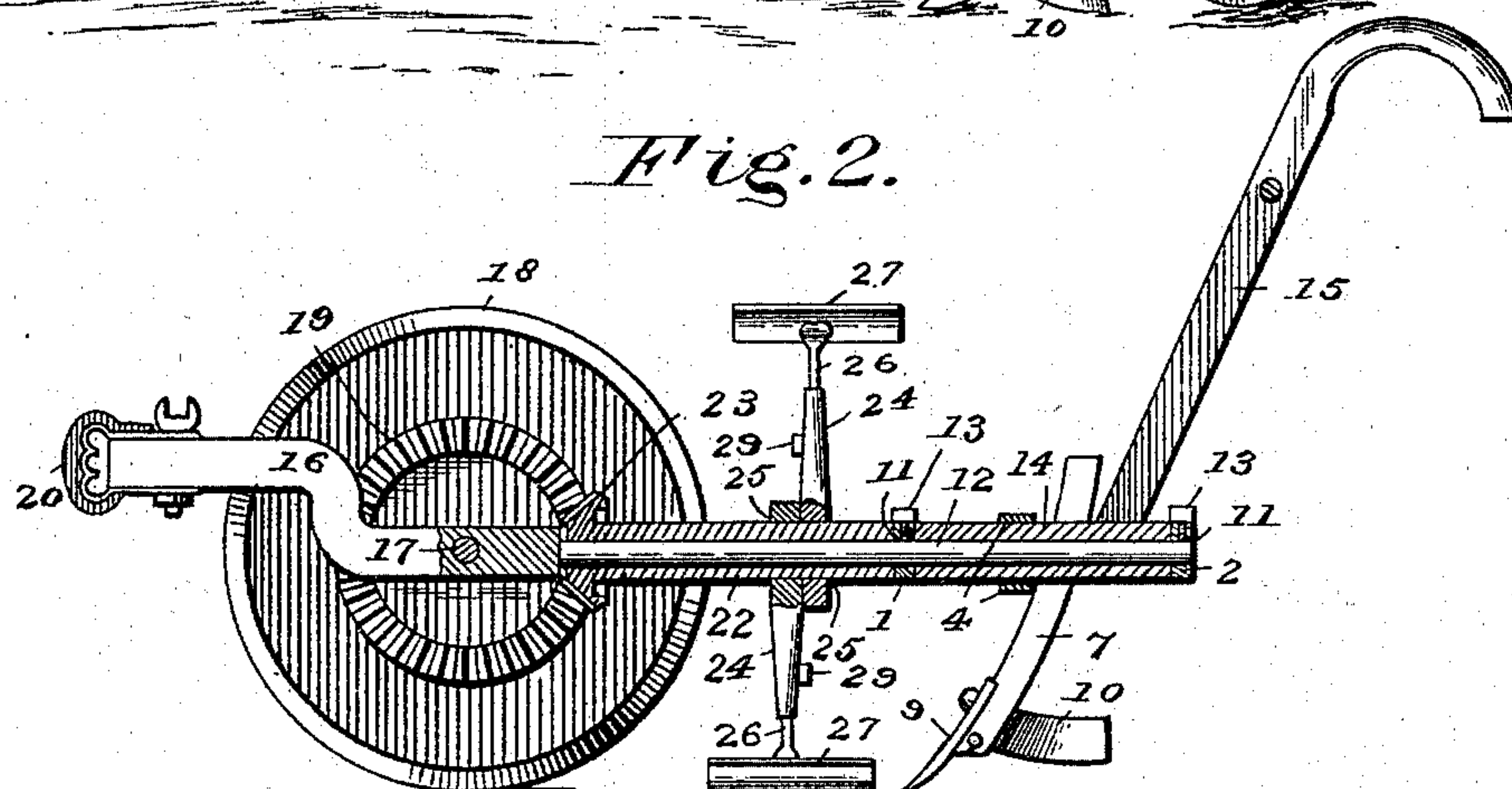
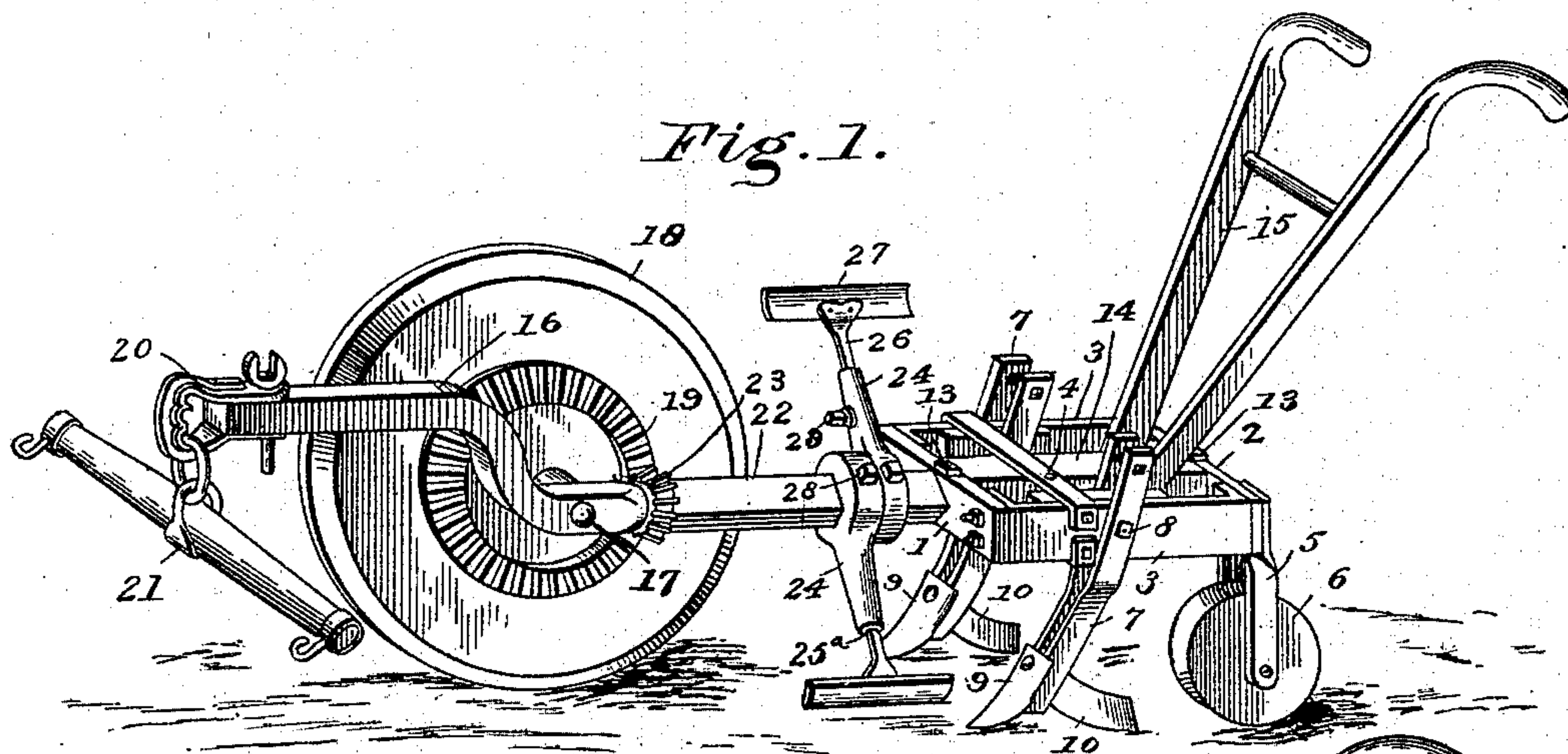


(No Model.)

J. J. GREEN.
COTTON CHOPPER.

No. 528,159.

Patented Oct. 30, 1894.



Witnesses

Julius Ulke, Jr.
M. S. Duwall.

By his Attorneys.

Inventor

Joseph J. Green,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE

JOSEPH J. GREEN, OF MULBERRY GROVE, GEORGIA.

COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 528,159, dated October 30, 1894.

Application filed December 13, 1893. Serial No. 493,551. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. GREEN, a citizen of the United States, residing at Mulberry Grove, in the county of Harris and State of Georgia, have invented a new and useful Cotton-Chopper, of which the following is a specification.

My invention relates to improvements in cotton-choppers, and to that class thereof which, simultaneously with the chopping, hills up the cotton and forms the same into rows, so that by a combined action of the machine the cotton is brought to a stand.

The objects of my invention are to provide a very simple machine of this class adapted to accomplish the purposes in view; to be easy of operation and accurate; and simple, strong, and durable in its construction.

With these general objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings—Figure 1 is a perspective view of a cotton-chopper embodying my invention. Fig. 2 is a longitudinal sectional view through the center of the machine. Fig. 3 is a transverse sectional view through the plow-supporting frame.

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

In the practice of my invention I construct a rectangular framework for the rear end of the machine, said framework being strong and consisting of stout timbers. In the present instance I have shown the same as comprising front and rear cross-bars 1 and 2, between whose ends are inserted the opposite-side-bars 3, stout bolts passing through the front and rear bars and side-bars, which latter have their terminals laterally bent to form securing ends as shown. These side-bars are preferably formed of metal and the front and rear bars may likewise be formed of metal, if desired. Transverse bars 4 span the frame thus constructed, the latter being, as shown, rectangular in plan. To one of the rear corners of the frame I secure a bifurcated standard 5, and journal in the lower end thereof a beveled wheel 6. The opposite side-bars 3 are embraced by the upper bifurcated ends of a pair of shovel-carrying standards 7, bolts 8 being employed for securing the standards

adjustably to the bars 3. Shovels 9 of any desired style are secured to the lower ends of the standards, and heel-sweeps or scrapers 10 are located in rear of the shovels.

The front and rear bars 1 and 2 are provided with central perforations 11, and in the same is located a stationary shaft 12, which is secured in position, in the present instance, by means of binding-bolts 13 passed downwardly through the upper edges of the bars 1 and 2 and impinging at their lower ends upon the shaft 12. The shaft 12 projects beyond the frame or in front of the same, and between the bars 1 and 2 has arranged thereon a stationary sleeve or block 14, to the opposite sides of which are secured by bolts or otherwise the diverging handles 15 which are of the usual construction and extend upward and rearward beyond the rear end of the frame. The front end of the shaft may be secured to an extension or the extension be integral with the shaft, as in the present instance, and said extension is, as shown, upwardly and forwardly disposed, forming an elbow 16. The elbow is flattened, whereas the shaft itself is round, and at the beginning of its flattened portion a transverse stub-shaft 17 is located and projects to one side. This stub-shaft accommodates a ground-wheel 18, at whose inner side a beveled pinion 19 is located, the same being fast with the wheel and designed to move therewith. The front end of the elbow extension 16, has the usual clevis 20 to which any ordinary draft appliance, as 21, may be secured.

A rotatable sleeve 22 is mounted loosely upon the shaft 12 between the elbow and the front cross-bar 1 of the frame, and has secured fast to its front end a small pinion 23 which engages with the gear 19 and is operated by the latter as the ground-wheel revolves. A pair of arms 24 having eyes 25 at their inner ends are interposed over and fit upon the sleeve 22 and are oppositely disposed. These arms terminate at their outer ends in sockets 25^a, into which are let standards 26, which carry hoes 27 at their outer ends. The hoes of the standards are reversely disposed and are held in position by binding-bolts 28 passing through the walls of the sockets of the arms and impinging on the standards 26. The arms are held in proper relative position

by binding-bolts 29 which pass through the inner ends thereof and impinge upon the sleeve 22.

This completes the construction of the machine, whose operation is as follows: The machine being set in motion it will be seen that the two plows or shovels 9, together with the scraper-blades or wings 10, will scrape a row of cotton, throwing the dirt up to the row. The wheel 6 traveling in rear of the shovels and supporting the framework, motion will be imparted from the gear 19 to the pinion 23 which thus drives the rotatable sleeve 22, together with the chopping arms, so that the hoes are alternately caused to chop transversely in the row, and thus as a result when the machine passes stands of cotton will be produced at regular intervals.

It will be seen that the machine is very simple in its construction and compact, and that it consists of few parts which are strongly put together or assembled and are durable, and that but few points of wear can take place, namely: the beveled gears and the sleeve, which may be readily replaced when worn.

By bending the front end of the shaft 12, the same is brought to a proper height for connecting with the draft animal.

I do not limit my invention to the precise details of construction herein shown and described, but hold that I may vary the same to any degree and extent within the knowledge of the skilled mechanic.

Having described my invention, what I claim is—

1. In a cotton chopper, the combination of the rear rectangular plow carrying frame, a longitudinal shaft extending through the frame and secured to the front and rear thereof and extending forward therefrom and carrying a clevis at its front end, a stationary sleeve mounted on the shaft and arranged within the frame, shovels carried by the frame, a rotating sleeve mounted on the shaft in advance of the frame, a stub shaft projecting laterally from the shaft in advance of the rotating sleeve, a ground wheel journaled on the stub shaft, gearing connecting the ground wheel with the rotating sleeve, hoes carried by the latter, and handles secured to the stationary sleeve, substantially as described.

2. In a cotton-chopper, the combination with a rear plow-carrying frame, a shaft extending from the same and terminating in an upwardly and forwardly disposed extension adapted to be connected with a draft-device, a stub-axle extending from the extension, a ground-wheel, and gear arranged on the axle, of a hoe-carrying sleeve rotatably mounted on the shaft in rear of the stub-axle, and a pinion at the front end of the sleeve engaging with the gear 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.

JOSEPH J. GREEN.

Witnesses:

S. J. WEBSTER,
J. C. WEBSTER.