

(No Model.)

W. B. RILING.
TONGUE SUPPORT.

No. 512,902.

Patented Jan. 16, 1894.

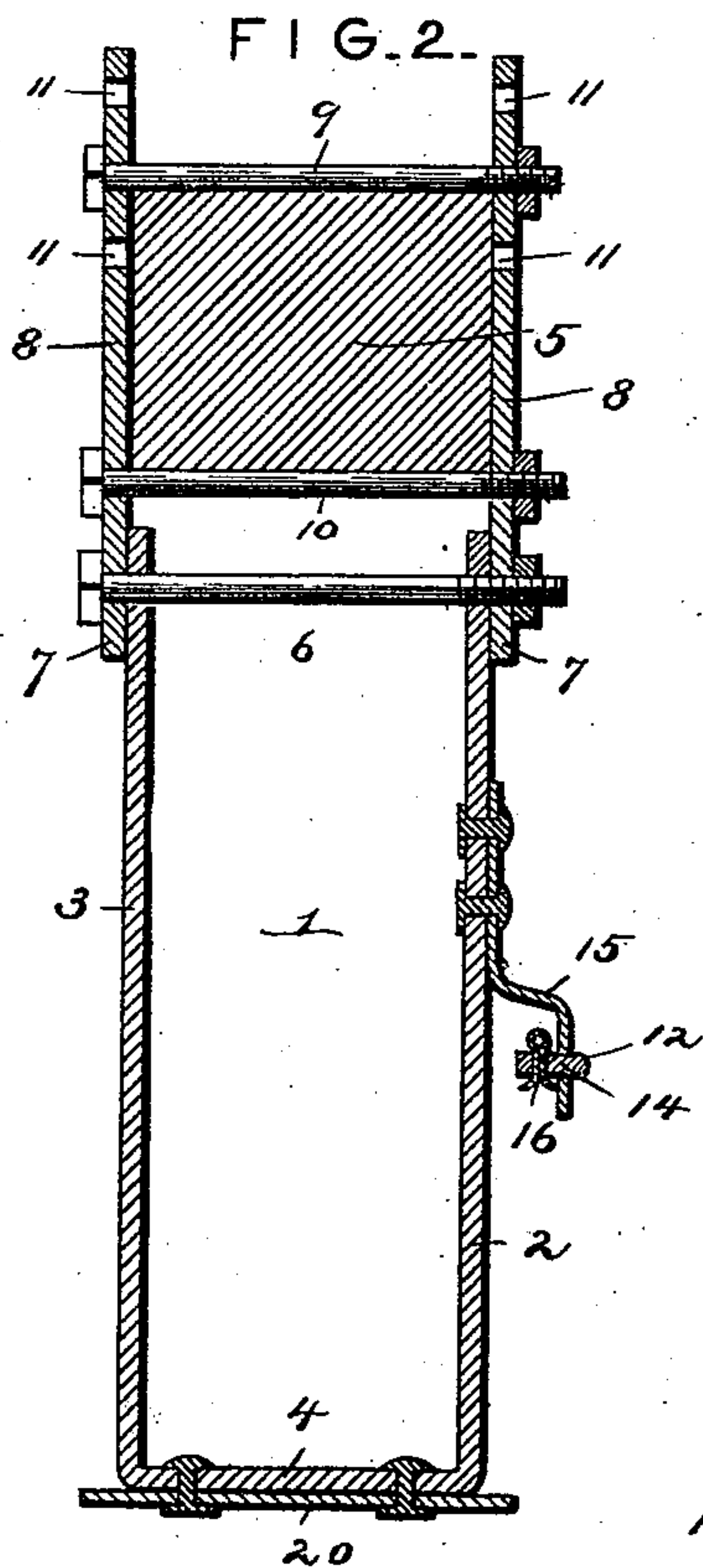
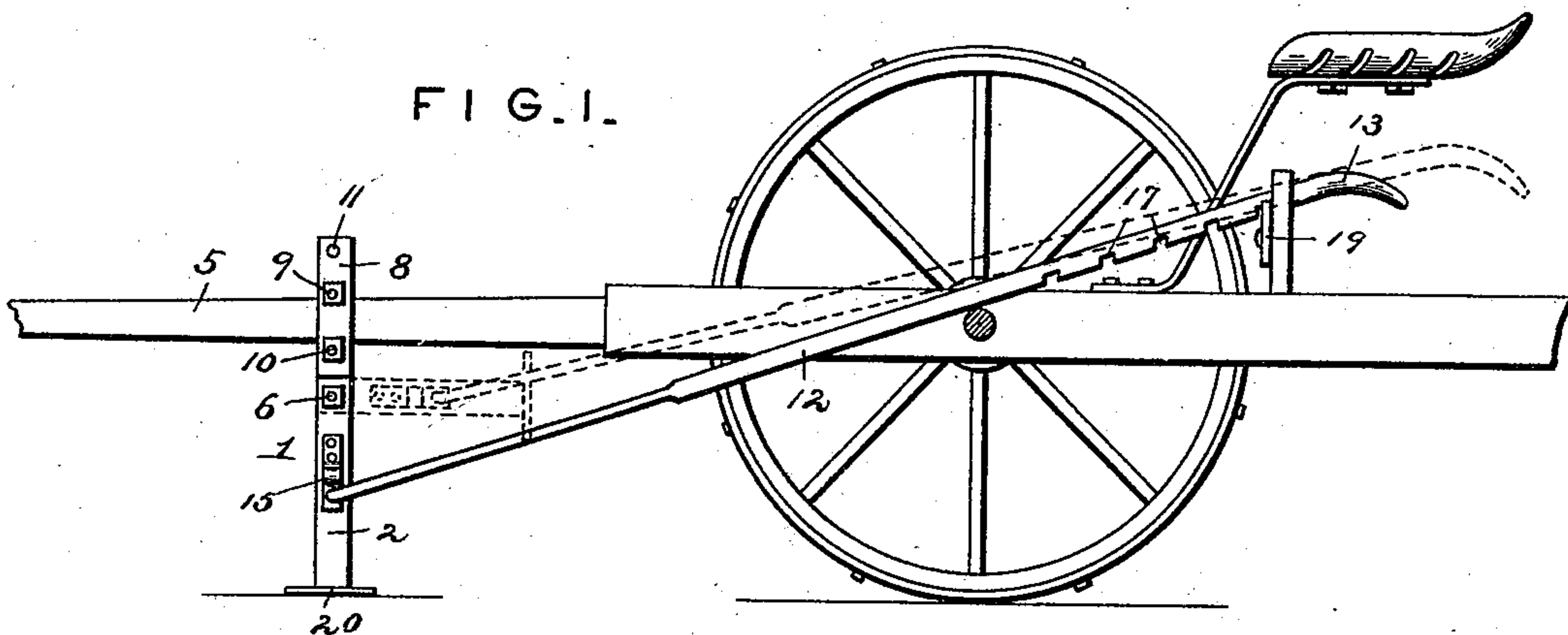


FIG. 3.

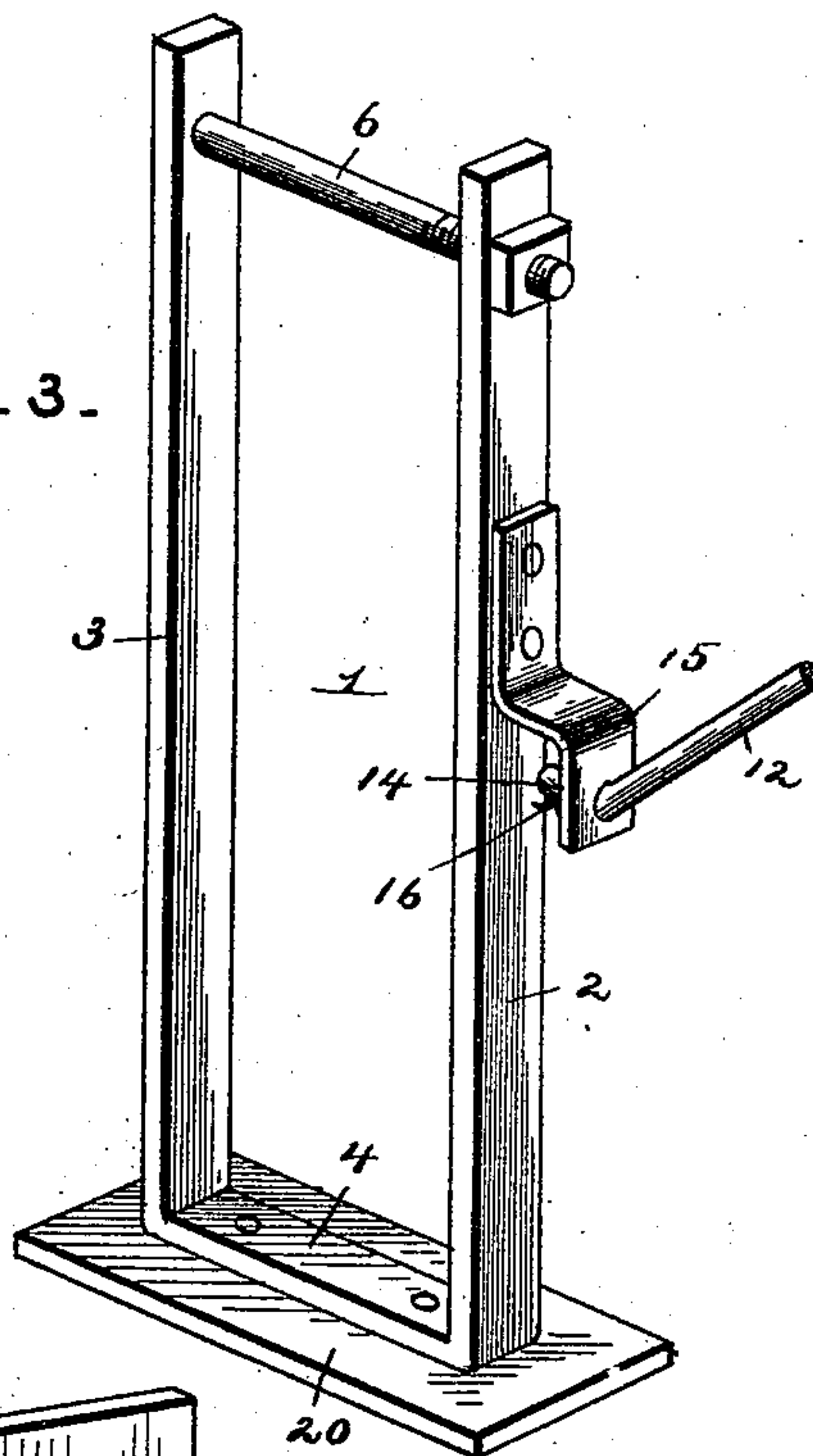
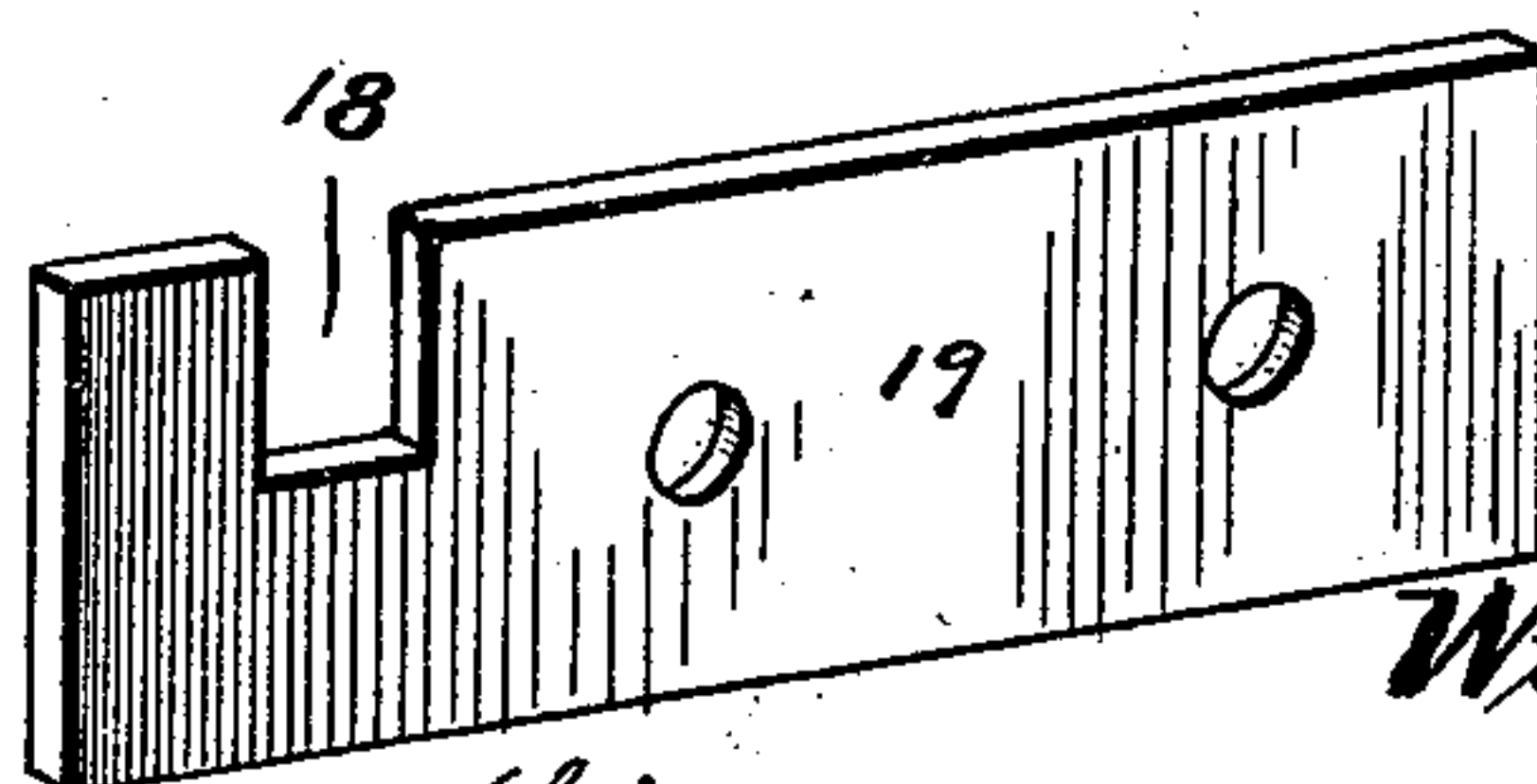


FIG. 4.



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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM B. RILING, OF GIRARD, KANSAS.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 512,902, dated January 16, 1894.

Application filed August 19, 1893. Serial No. 483,559. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. RILING, a citizen of the United States, residing at Girard, in the county of Crawford and State of Kansas, have invented a new and useful Tongue-Support for Harvesters, &c., of which the following is a specification.

The invention relates to improvements in tongue supports for harvesters, &c.

10 The object of the present invention is to provide for harvesters, reapers, mowers, binders, and similar implements a tongue support, adapted to be conveniently operated by a driver previous to leaving his seat to relieve
15 the draft animals of the unbalanced weight of such machines, when the driver dismounts and the machine is stopped.

A further object of the invention is to provide a simple and inexpensive device, which
20 will possess great strength and durability, and which may be readily applied to any ordinary farm implement or machine without altering the construction of such.

The invention consists in the construction
25 and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a side elevation
30 of a tongue support constructed in accordance with this invention and shown applied to a machine. Fig. 2 is a transverse sectional view. Fig. 3 is a detail perspective view of the supporting frame. Fig. 4 is a similar
35 view of the catch plate.

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

1 designates a rectangular supporting frame
40 constructed of a single piece of bar iron or other suitable metal and composed of sides 2 and 3 and a bottom cross piece 4. The sides 2 and 3 are pivotally connected with a tongue 5 by a bolt 6 passing through perforations of
45 the upper ends of the sides 2 and 3, and lower depending ends 7 of attachment bars 8, which are detachably and adjustably secured to the tongue by upper and lower bolts 9 and 10, whereby the supporting frame may be con-
50 nected with the tongue of any ordinary har-

vester, binder, or similar machine and at any point on the tongue.

The attachment bars 8 form a clamp for engaging the tongue, and their upper ends are provided with a series of adjusting per-
55 forations 11 to enable the clamp to fit different sizes of tongues. The bolts are provided with nuts and a tongue may be securely clamped.

The supporting frame is designed to be ar-
60 ranged perpendicularly under the tongue for supporting the same, and it may, as illustrated in dotted lines in Fig. 1 of the accompanying drawings, be swung rearwardly and upwardly
65 against the tongue when not in use; and it is operated by a rod 12 extending rearward and terminating adjacent to the driver's seat in a handle 13.

The operating rod has its front end bent inward at an angle to form a pivot 14, which
70 is secured in a perforation of the bearing arm 15 by a pin or key 16.

The bearing arm is riveted or otherwise secured to the supporting frame, and is provided with a depending angularly outwardly
75 bent offset lower portion having the said perforation for the pivot of the operating rod.

The rear end of the operating rod is provided with a series of notches 17 any one of which is adapted to engage a notch 18 of a
80 catch plate 19, which is secured to the frame of the machine, or to a suitable support, and is arranged adjacent to the seat for the driver in order that the operating rod may be within
85 easy reach.

The supporting frame is adapted to be arranged perpendicular to the tongue or at any desired angle for supporting the same at the desired elevation and when not in use it is swung rearward out of the way.
90

A foot plate 20 is secured to the bottom cross-piece 4 of the supporting frame, and affords a broad base to prevent the tongue support from sinking in the ground.

The operating rod is preferably round at its
95 front portion, and its rear portion is enlarged and is rectangular in cross-section, to enable the notches to be readily provided without weakening it.

It will be seen that the tongue support is 100

exceedingly simple and inexpensive in construction, and that it may be readily applied to any ordinary binder, harvester, or similar machine, without altering the construction of
5 the same.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.
10

What I claim is—

1. A tongue support comprising separate independent attachment bars designed to be arranged vertically at opposite sides of a
15 tongue, bolts passing through the attachment bars for securing the same to a tongue, and designed to be arranged above and below the latter, whereby the bars may be readily applied to any size tongue, a supporting frame
20 pivotally secured at its top to the attachment bars and depending therefrom and designed to be arranged perpendicular to a tongue for supporting the same and adapted to be swung up beneath the tongue when not in use, and
25 an operating rod extending rearward from the supporting frame and pivotally connected thereto, substantially as described.

2. A tongue support comprising the separate independent attachment bars designed

to be arranged on opposite sides of the tongue, 30
and provided at their upper ends with adjusting perforations and having their lower ends depending, the upper and lower bolts for securing the attachment bars to a tongue and designed to be arranged above and below 35
the latter, whereby the bars may be readily applied to any size tongue, the upper bolt being adapted to fit in any of the adjusting perforations, the rear angular supporting frame pivotally connected at its top to the depend- 40
ing ends of the attachment bars and provided at its bottom with a base plate and having at one side an offset bearing arm, a rearwardly extending operating rod having its front end pivoted to the said bearing arm and provided 45
at its rear end with a series of notches, and a catch plate designed to be secured adjacent to a driver's seat and provided with a notch adapted to be engaged by any one of the notches of the operating rod, substantially as 50
described.

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

WILLIAM B. RILING.

Witnesses:

JAMES A. SMITH,
S. H. BROWN.