

No. 768,147.

PATENTED AUG. 23, 1904.

W. F. REED.
ADJUSTABLE HAY RAKE.
APPLICATION FILED MAR. 26, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

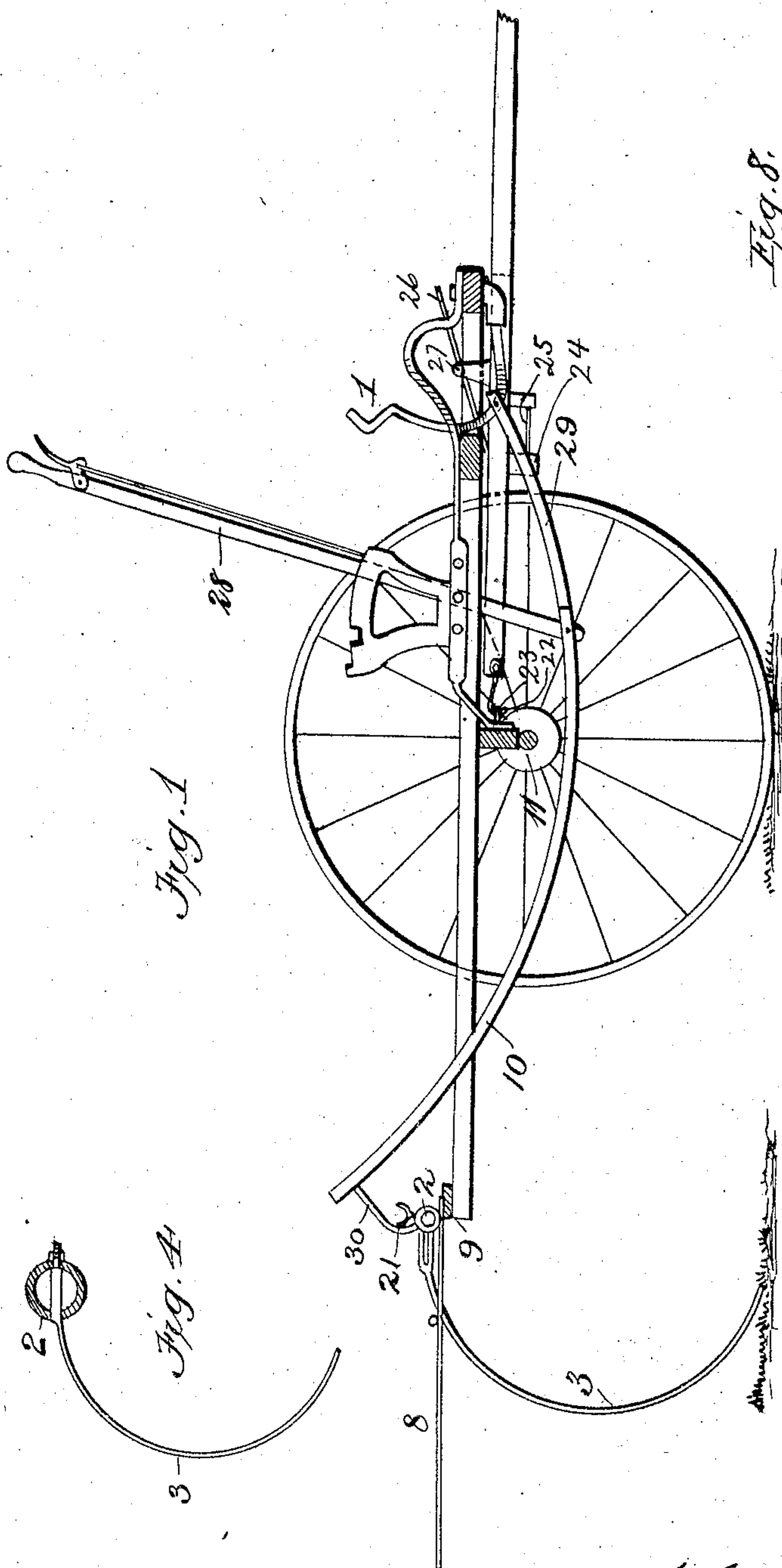


Fig. 8.

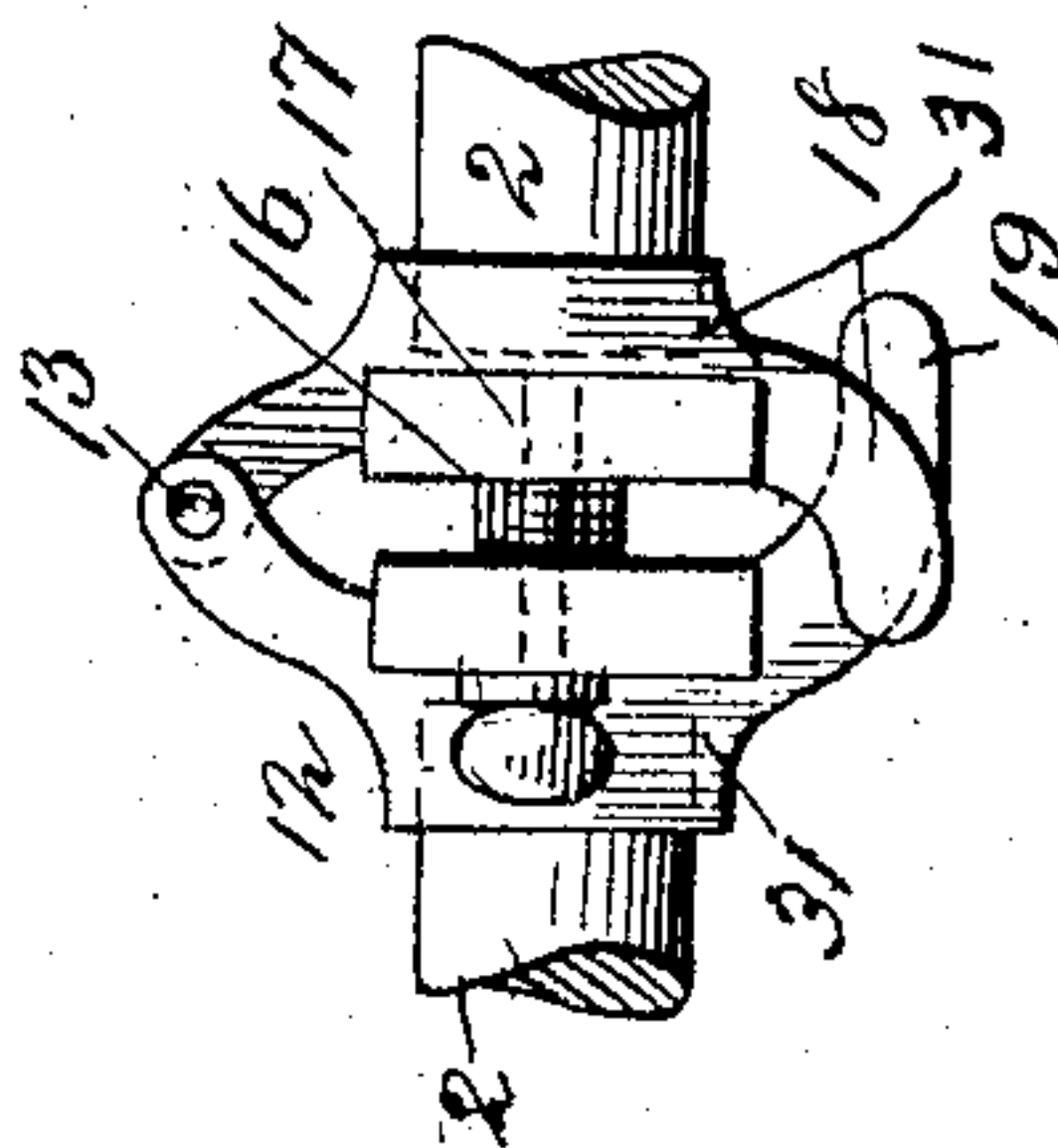


Fig. 5.

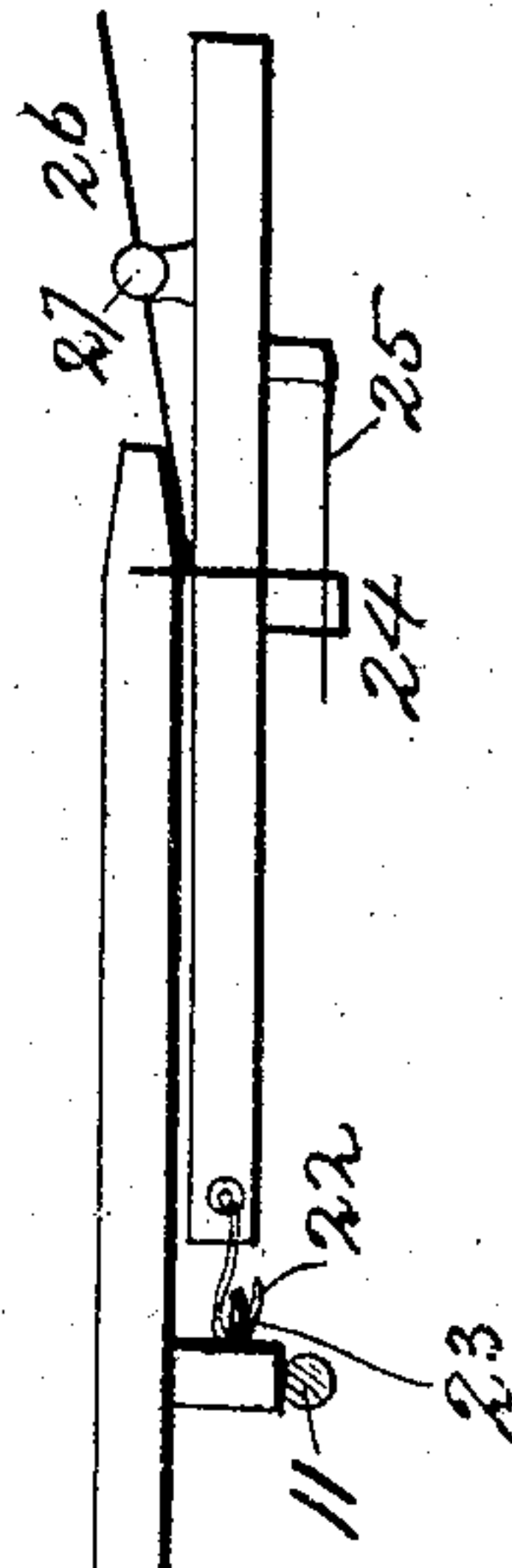


Fig. 6.

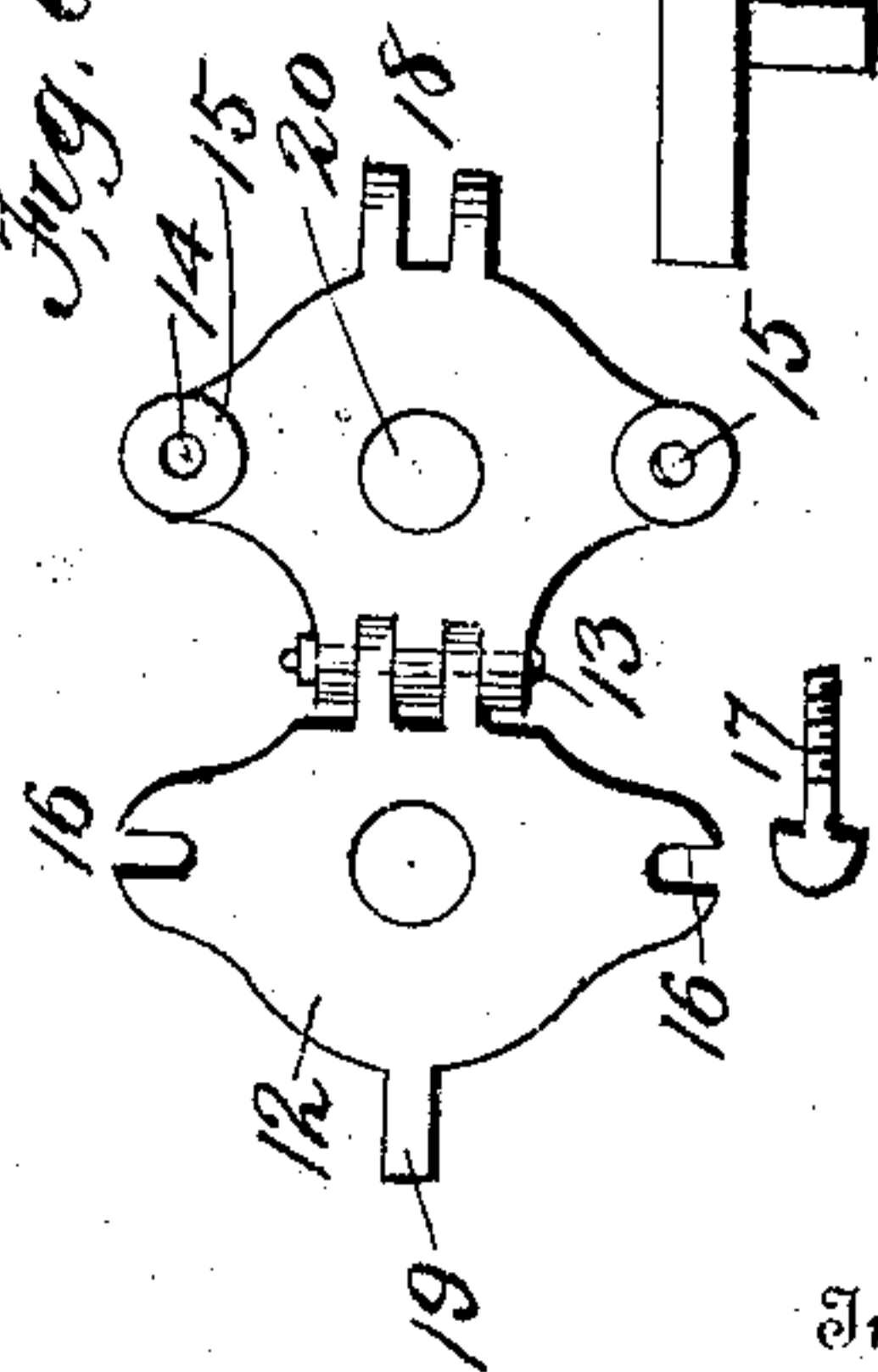


Fig. 7.

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2 SHEETS—SHEET 2.

Fig. 2.

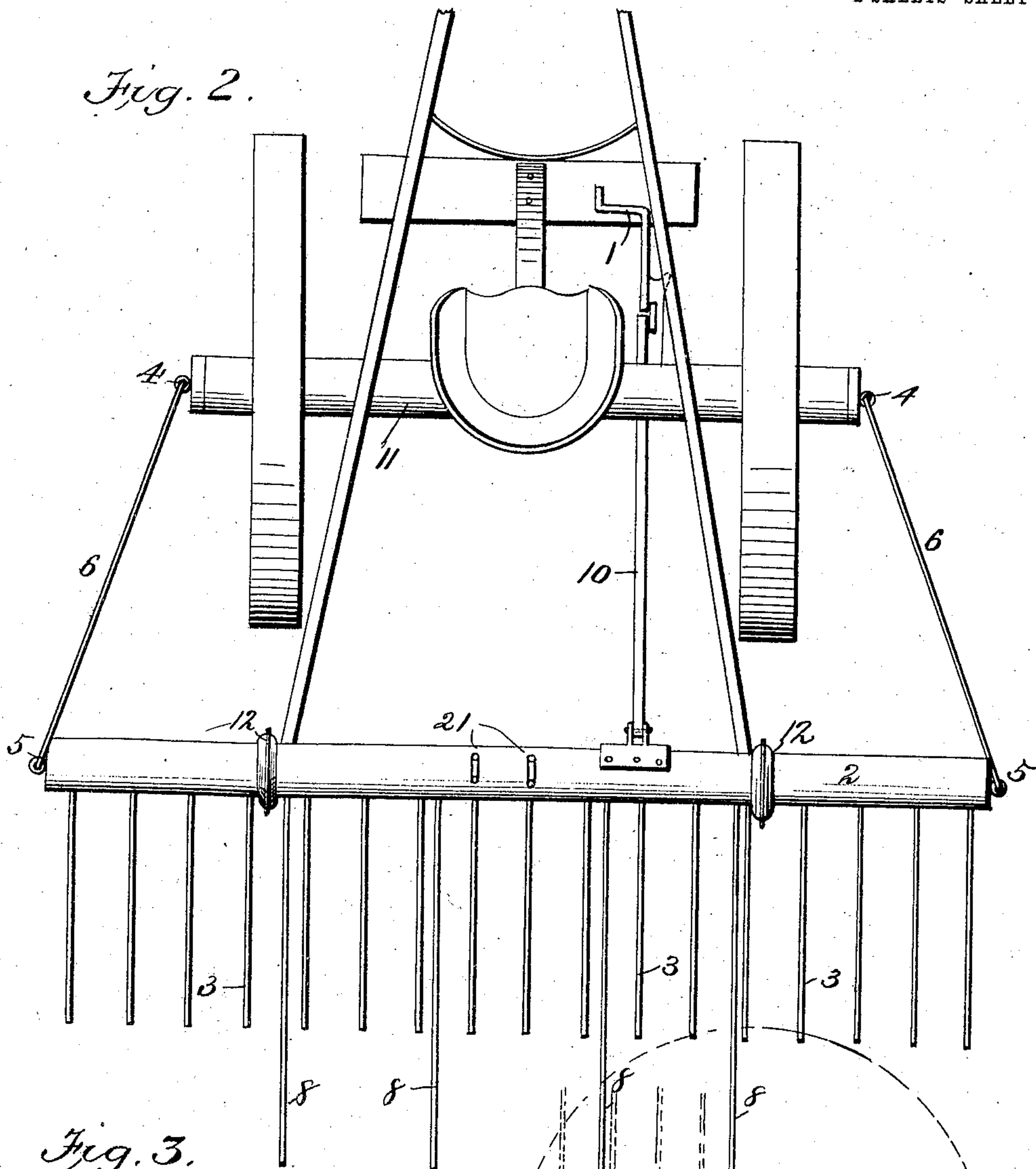
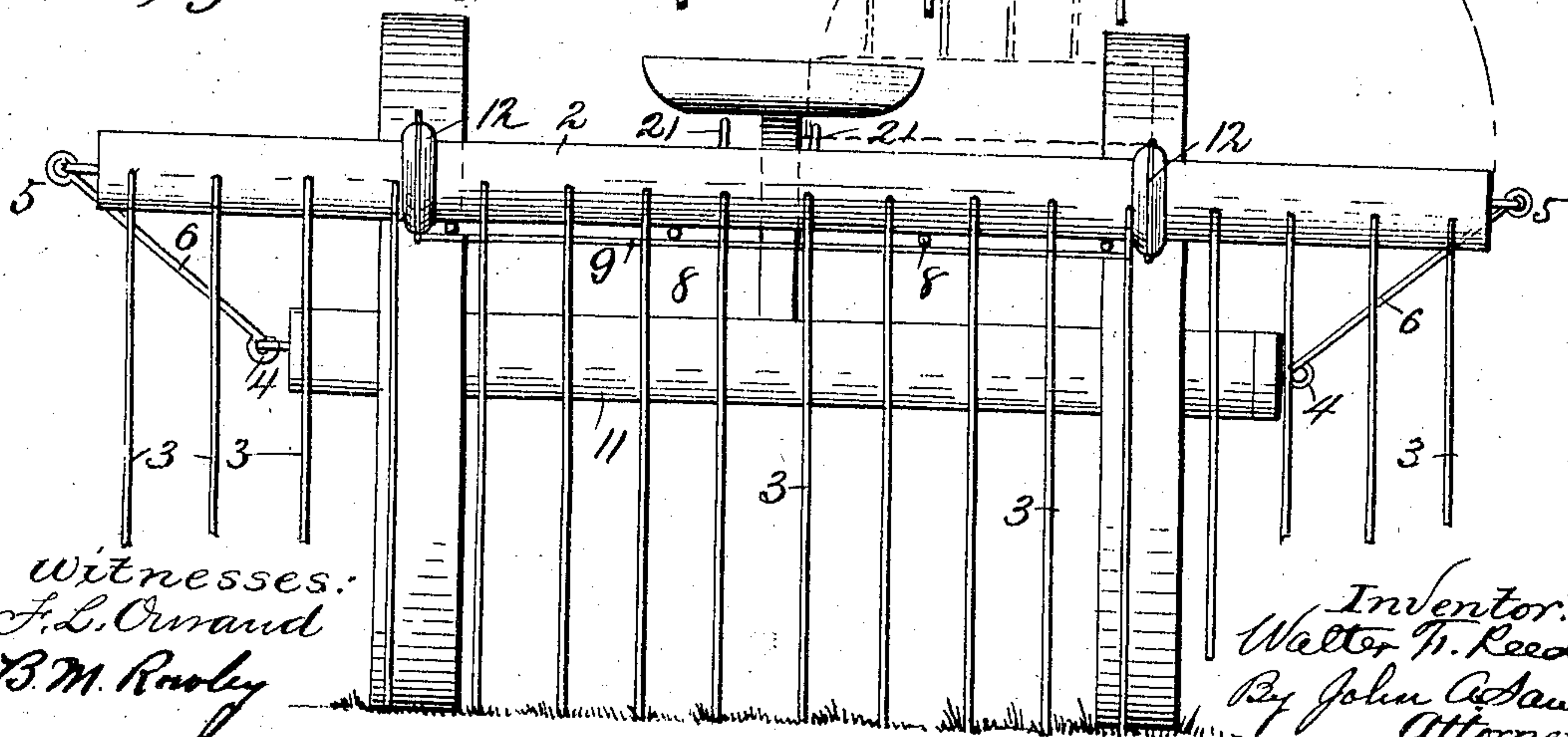


Fig. 3.



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UNITED STATES PATENT OFFICE.

WALTER F. REED, OF CAMDEN, SOUTH CAROLINA.

ADJUSTABLE HAY-RAKE.

SPECIFICATION forming part of Letters Patent No. 768,147, dated August 23, 1904.

Application filed March 26, 1902. Serial No. 99,998. (No model.)

To all whom it may concern:

Be it known that I, WALTER F. REED, a citizen of the United States, residing at Camden, in the county of Kershaw and State of South Carolina, have invented new and useful Improvements in Adjustable Hay - Rakes, of which the following is a specification.

My invention relates to adjustable hay-rakes, and has for its object to so construct the same that it may be easily contracted or folded when out of operation or be used in its contracted position when desired.

In the drawings forming a part of this specification, and in which like symbols of reference represent corresponding parts in the several views, Figure 1 is a longitudinal sectional view of the machine; Fig. 2, a plan view of the device; Fig. 3, a rear elevation; Fig. 4, a sectional view of the finger-bar and one of the fingers; Fig. 5, a view of the tilting devices on the shaft or tongue; Fig. 6, a view of the locking-hinge in its open position; Fig. 7, a view of the thumb-screw for locking the parts of the hinge together, and Fig. 8 a side view of the claw or hinge locked.

1 indicates the foot-lever; 2, the rake-head; 3, the fingers; 4, the eyes in the ends of the axle, and 5 looped eyes in ends of the rake-head for the purpose of bracing the latter by means of a rod 6 engaging the same.

8 represents the clearing-fingers on the rod 9, 10 connecting-rod from the foot-lever 1 to the rake-head 2, and 11 the axle.

12 indicates the claw or locking hinge; 13, the bolt in the same; 14, holes in the locking-hinge; 15, bosses around said holes; 16, elongated openings through which thumb-screws 17 operate and engage threads formed in holes 14, and thus lock the parts together when said hinge is closed and arms extended.

18 represents the claws in which lug 19 engages when the hinge is closed and the arms are extended; 20, the hole in the center of hinge, having bosses 31 formed around the same, with threads to engage one end of the folding ends.

21 represents rests on the rake-head for the folding ends when folded; 22, a hook or loop on the ends of the shafts or tongue to engage eyes 23 on the axle; and 24 a loop extending

down from the frame of the machine and reaching below and under the shafts and tongue, making a looped connection between the main frame of the machine and the shafts and tongue thereof.

25 indicates a spring device on the under side of the shafts and tongue to work in conjunction with the hook or loop 24, and 26 indicates a foot-lever to raise or lower the rear end of the machine at will when operating upon uneven ground.

27 indicates a fulcrum for the foot-lever 26 to work on.

28 indicates the hand-lever.

29 indicates the link connecting the hand-lever 28 with the foot-lever 1, and 30 the arm on rake-head, having hinged connection with the connecting-rod 10.

The operation of the device is as follows: When it is desired to transport or limit the width of the rake, the hinges are unlocked and ends or arms thrown back upon the rests, and the foot-lever 26 may be operated to raise or lower the rear of the device while working on uneven ground, and the hand-lever 28 or the foot-lever 1 to be operated to raise and lower the fingers while in operation to clear same of the material.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an adjustable hay-rake, a main frame, a loop supported on the same, a shaft, a spring connected to the same and engaging the loop, and a lever located on the shaft and adapted to raise the frame from the same.

2. In an adjustable hay-rake, the combination with the rake-head, of adjustable hinged ends connected to the same, forks upon the rake-head, lugs upon the adjustable sections adapted to be guided by and received within the forks, internally-threaded holes in the rake-head, slots in the adjustable ends, and screws working within the internally-threaded holes and slots, so that when the adjustable ends are extended the screws may be operated to lock the parts.

3. In an adjustable hay-rake the combination with the rake-head, of adjustable ends each having a hinged connection to the same,

interlocking means for the adjustable ends
when the same are extended, screws upon the
rake-head, said screws provided with elon-
gated heads, and recesses on the adjustable
5 ends adapted to receive the elongated screw-
heads, so that by turning said heads the parts
are locked.

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

WALTER F. REED.

Witnesses:

JNO. J. WORKMAN,
J. ENGLISH VAUGHAN, Jr.