

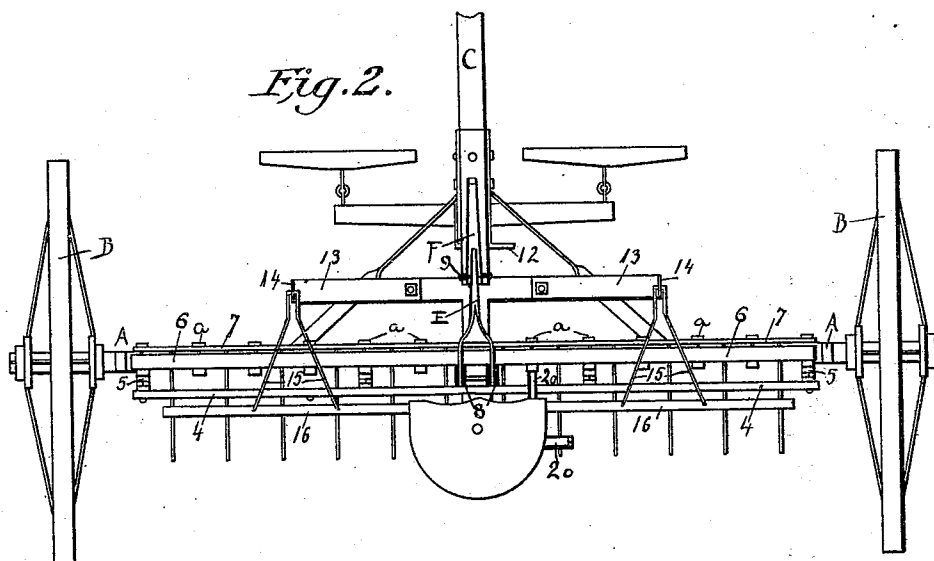
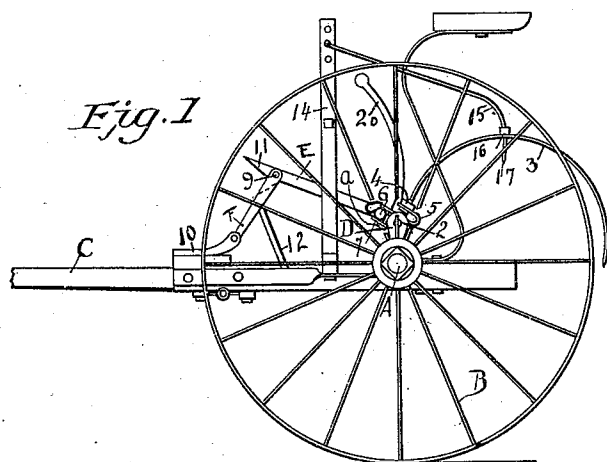
(No Model.)

3 Sheets—Sheet 1.

A. J. CONLEY.
HAY RAKE.

No. 551,756.

Patented Dec. 24, 1895.



WITNESSES:

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INVENTOR

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(No Model.)

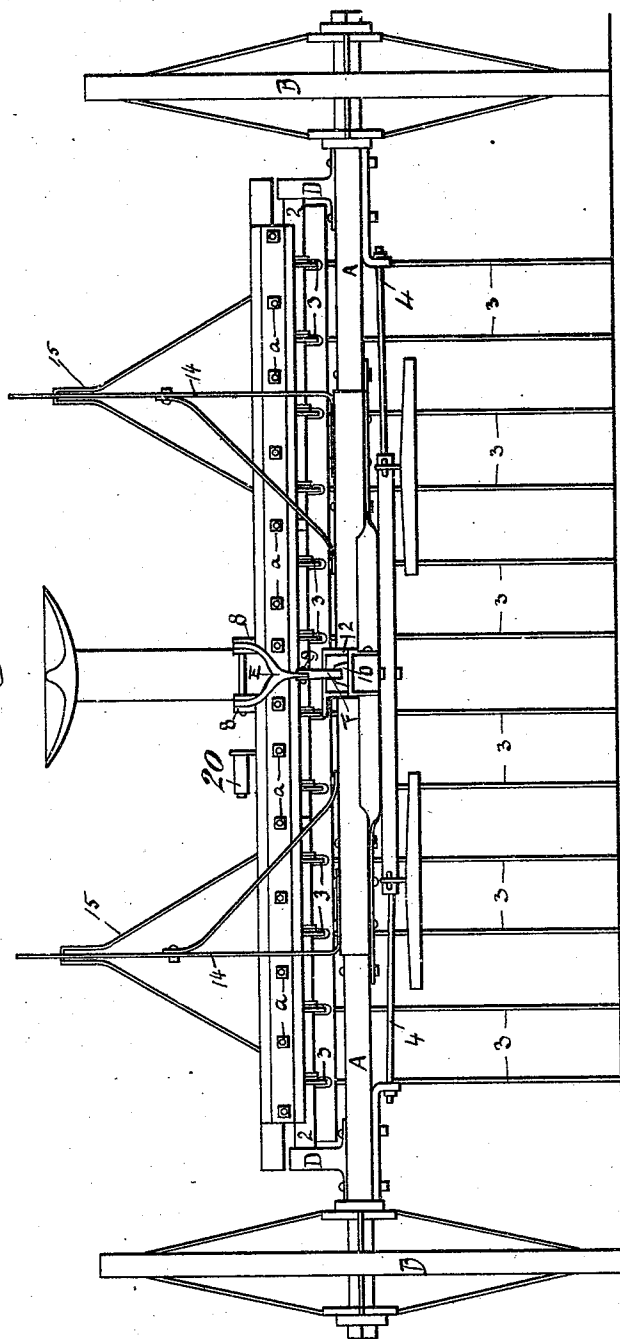
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Fig. 3.



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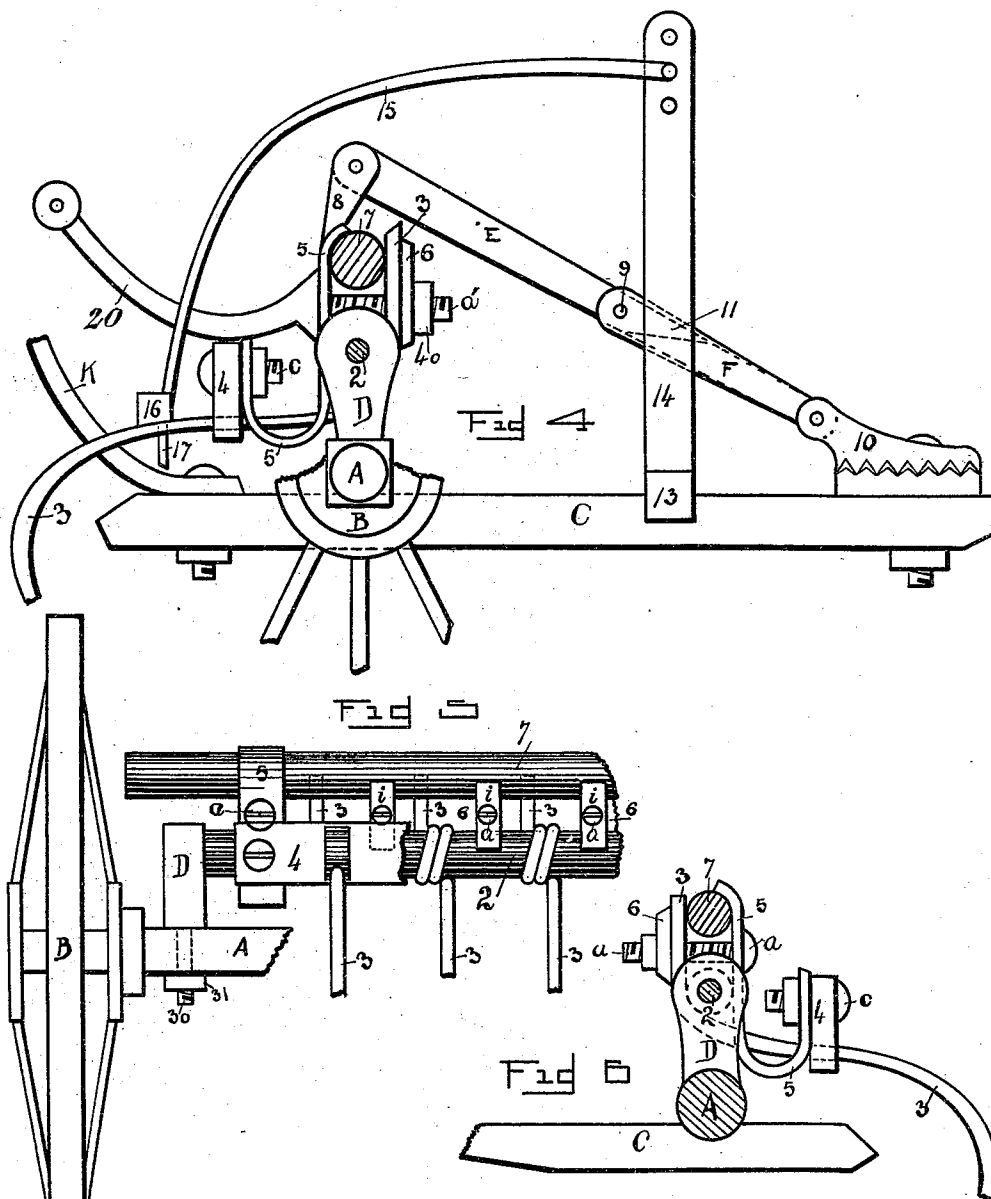
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3 Sheets—Sheet 3.

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Patented Dec. 24, 1895.



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UNITED STATES PATENT OFFICE.

ANDREW J. CONLEY, OF NORTH BEND, NEBRASKA.

HAY-RAKE.

SPECIFICATION forming part of Letters Patent No. 551,756, dated December 24, 1895.

Application filed March 26, 1894. Serial No. 505,143. (No model.)

To all whom it may concern:

Be it known that I, ANDREW J. CONLEY, of North Bend, in the county of Dodge and State of Nebraska, have invented certain useful Improvements in Hay-Rakes; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention has relation to a new and novel improvement in hay-rakes, the object being to provide a device that shall be simple of construction and readily operated.

In the accompanying drawings, Figure 1 shows a side elevation of my invention with parts broken away. Fig. 2 is a top view thereof, while Fig. 3 shows a front view of a rake embodying my invention. Fig. 4 shows an enlarged detail with parts removed disclosing an end view of my hay-rake. Fig. 5 shows a broken detached enlarged detail showing the arrangement of the rake-teeth, while Fig. 6 shows a detached sectional view with parts removed disclosing the arrangement of the rake-teeth in relation to the supporting-bars.

A A represent an ordinary supporting-axle of any suitable size and material, which is provided with the two wheels B B. Centrally this axle is provided with the usual tongue C, secured thereto by any suitable means.

Secured to the axle A at two or more points are the upwardly-extending bearings D D. Extending transversely above the axle and held within these supports D D is a suitable bar 2, as shown in Figs. 1 and 3. This bar 2 may be round or square, as desired. Extending from this bar 2 are a suitable number of rake-teeth 3. These teeth 3 are of the usual size and conformation and by means of their curved ends are wound around the bar 2. Positioned in front of these teeth is an ordinary fender 4, comprising a wooden bar which is secured to the bar 2 by means of the braces 5, as shown more clearly in Figs. 1, 2, and 4. Above the upwardly-extending ends of the teeth are further secured therebetween the bars 6 and 7. These bars 6 and 7 are two ordinary bars which are connected by ordinary

bolts and between which the ends of the teeth are securely impinged.

It will be noticed that the tooth-support proper comprises the teeth 3, the fender 4, secured to the bar 2 by means of the bracket 5, and the bars 6 and 7, which are secured by means of the bolts *a*. This tooth-support is pivotally held with the bearing-brackets D.

Extending from the bar 2 in an upward direction are two bifurcated arms 8 8, within which the fork-shaped lever E is movably secured. This lever E is secured near its free end within the bifurcated end of the lever F by means of the pin 9. This lever F is held at its free end within the shoe 10, as more clearly shown in Fig. 4.

It will be noticed that the free end of the lever E is pointed, and there is a corresponding seating within the lever F, within which this point 11 finds rest.

Pivoted to the tongue C is an operating-lever 12, having a hand-hold, and which is placed immediately below the lever F. This operating-lever 12 is in the shape of a rectangle which has its transverse portion riding below this lever F, which will be noticed by referring to Fig. 3. By means of this system of levers E F and the operating-lever 12 the harrow-teeth 3 may be thrown into or out of position. In Fig. 1, for instance, the lever 12 has been carried upward so as to carry the teeth upward to dump their load. As soon as the lever 12 is thrown backward again toward the axle the levers E F fall into their normal positions, in which the rake-teeth drag upon the ground. Secured to the transverse bar 13 and forming part of the tongue C are two upwardly-extending arms 14, at the upper end of which the swinging frames 15 are held. These frames 15 curve upward and are provided with the bars 16, having a number of teeth 17. These bars 16 ride upon the teeth 3, and, of course, are movably secured to the frame by means of the posts 14. Whenever these teeth 3 are carried into their upward position, which is accomplished by means of the main operating-handle 20, which is secured to the bar 2, these teeth ride upon the rake and loosen any straggling hay that might adhere to the same. As the rake is carried to or from the field the bar 12 is thrown under the lever F, so as to

hold the rake-frame in an upward position, as shown in Fig. 1.

Now, having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

In a wheeled hay rake, the combination with a supporting axle, of the pivoted bar, 2, of the bifurcated arm, 8, secured to said bar, the bar, E, secured to said bar, 8, having its free end wedge shaped, of the bifurcated lever, F, secured to said wedge shaped bar, E, said bar, F, being further secured to the shoe, 10, said shoe, 10, being adjustably secured to the rake frame, the curved rake teeth, 3, being provided with a coiled end adapted to wind about said bar, 2, the clamping bars, 6

and 7, the retaining bolts, *a*, securing said bars, 6 and 7, said bars, 6 and 7, being adapted to clamp the upper projecting ends of said rake teeth, 3, and the supporting end brackets, 5, provided with the bolts and nuts, *a'* and 40, and being adapted to clamp said bars, 6 and 7, said brackets, 5, further being provided with the slotted guiding bar, 4, adapted to hold the rake teeth, 3, all substantially as and for the purpose set forth.

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

ANDREW J. CONLEY.

Witnesses:

ERNEST KERN,
W. J. McVICKER.