G. S. KINSEY.

Horse Rake.

No. 29,795. Patented Aug. 28, 1860.

Fig. 1.

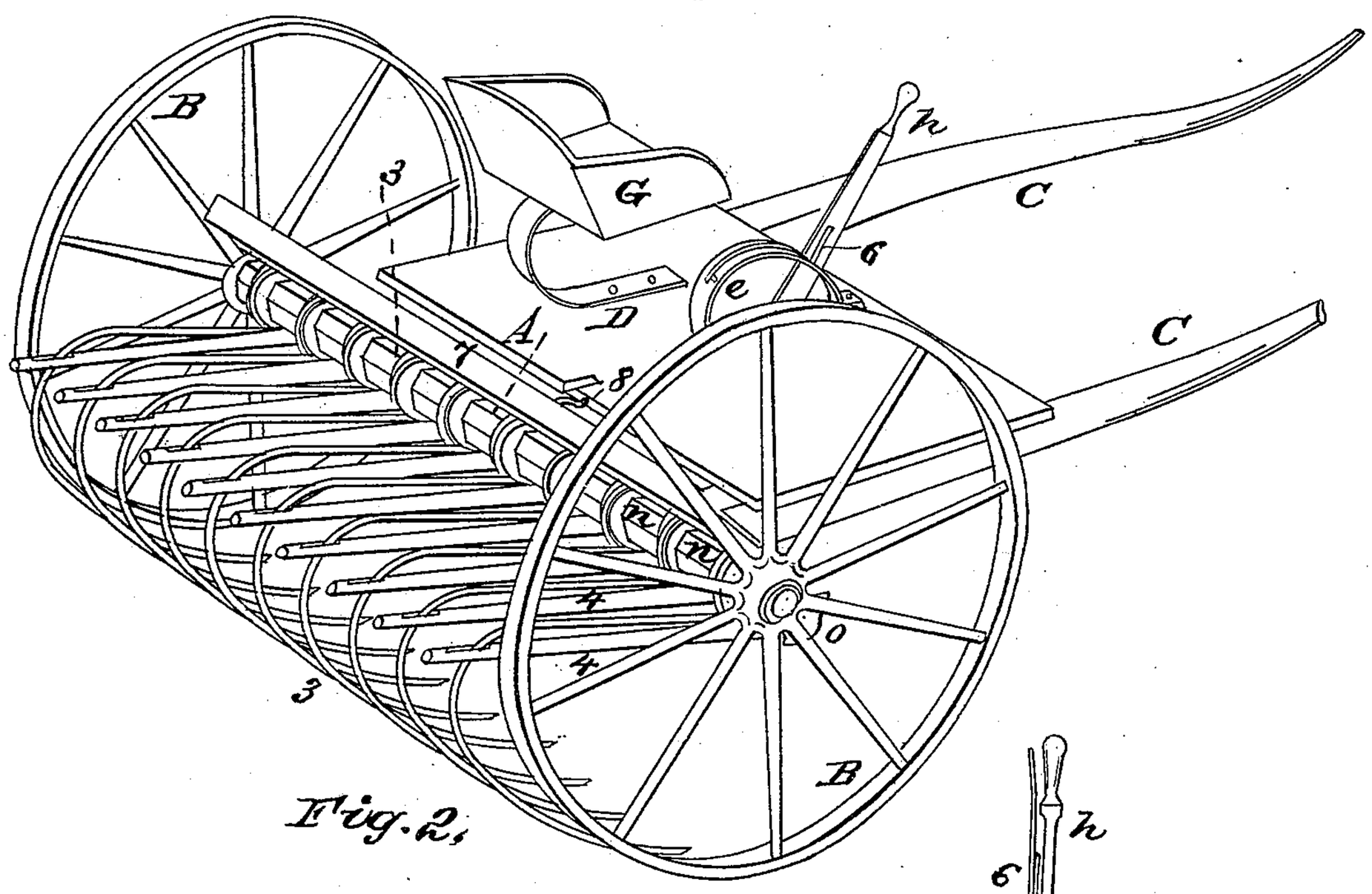

Fig. 2.

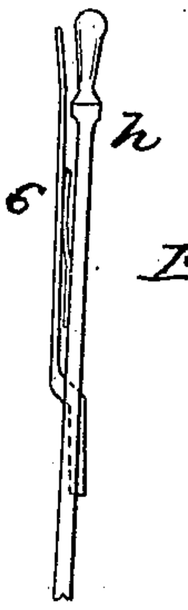

Fig. 3.

Witnesses:

H. J. Rouse

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Inventor:

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UNITED STATES PATENT OFFICE.

G. S. KINSEY, OF READING, PENNSYLVANIA.

IMPROVEMENT IN HORSE-RAKES.

Specification forming part of Letters Patent No. **29,795**, dated August 28, 1860.

To all whom it may concern:

Be it known that I, G. S. KINSEY, of the city of Reading, county of Berks, and State of Pennsylvania, have invented certain new and useful Improvements in Horse-Rakes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view thereof. Fig. 2 is a longitudinal section, and Fig. 3 is a detailed view, of the hand-lever latch and spring, in which A is an octagonal axle, each end of which is furnished with wheels B B. C C are thills, which are framed into the axle A. D is a floor or platform secured to the thills, upon which the spring-seat G, semicircular slitted rack *e*, and vibrating hand-lever *h* are secured. *n n* are stationary flanged pulleys or ferrules, placed any suitable distance apart and screwed fast to the octagonal axle A. 3 3 are spring-teeth, which pass through the mortises in the stationary cleaners 4 4, and are lapped around between the flanges of the pulleys or ferrules *n n*, which form the fulcrum or center of motion for the teeth while being raised or lowered, and also form a complete independent spring to each tooth by means of the ends being clinched or screwed securely into the spring-beam 7, to which the connecting-bar 8 is attached by means of a staple or other suitable device by the one end, and the other end is attached to the lower end of the hand-lever *h*, which has its center of motion at 2, and is furnished with a spring-latch, 6, Fig. 3, by which means the lever is held in its proper position by the latch 6 entering into corresponding notches in the semicircular slitted rack *e*. O is a beam, secured transversely to the thills C C, into which the cleaners 4 4 are framed securely, and serve the double purpose of tooth-guides and cleaners.

In using my invention the operator occupies the spring-seat G, and the rake being full of hay or grain, which he desires to unload, he takes hold of the handle of hand-lever *h*, and by so doing presses the latch 6 against the handle, which releases the lever from the notches in the rack *e*, whereon he pulls toward himself, by which means the lap of the teeth around the flanged pulleys or ferrules *n n* is eased off, and the teeth rise up and unload easily, as represented in dotted lines, Fig. 2. The hand-lever *h* is then pushed forward to any desirable pressure upon the teeth, and is held firmly by the latch 6, by which means a variable spring-pressure is obtained upon the teeth, which makes it a very efficient, cheap, simple, and economical rake.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The stationary mortised cleaners 4 4, when used for the double purpose as cleaners and tooth-guides, as described and set forth.

2. The combination and arrangement of the hand-lever *h*, spring-latch 6, semicircular slotted rack *e*, and connecting-bar 8, when constructed and operated as and for the purpose specified.

G. S. KINSEY.

Witnesses:
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