

(No Model.)

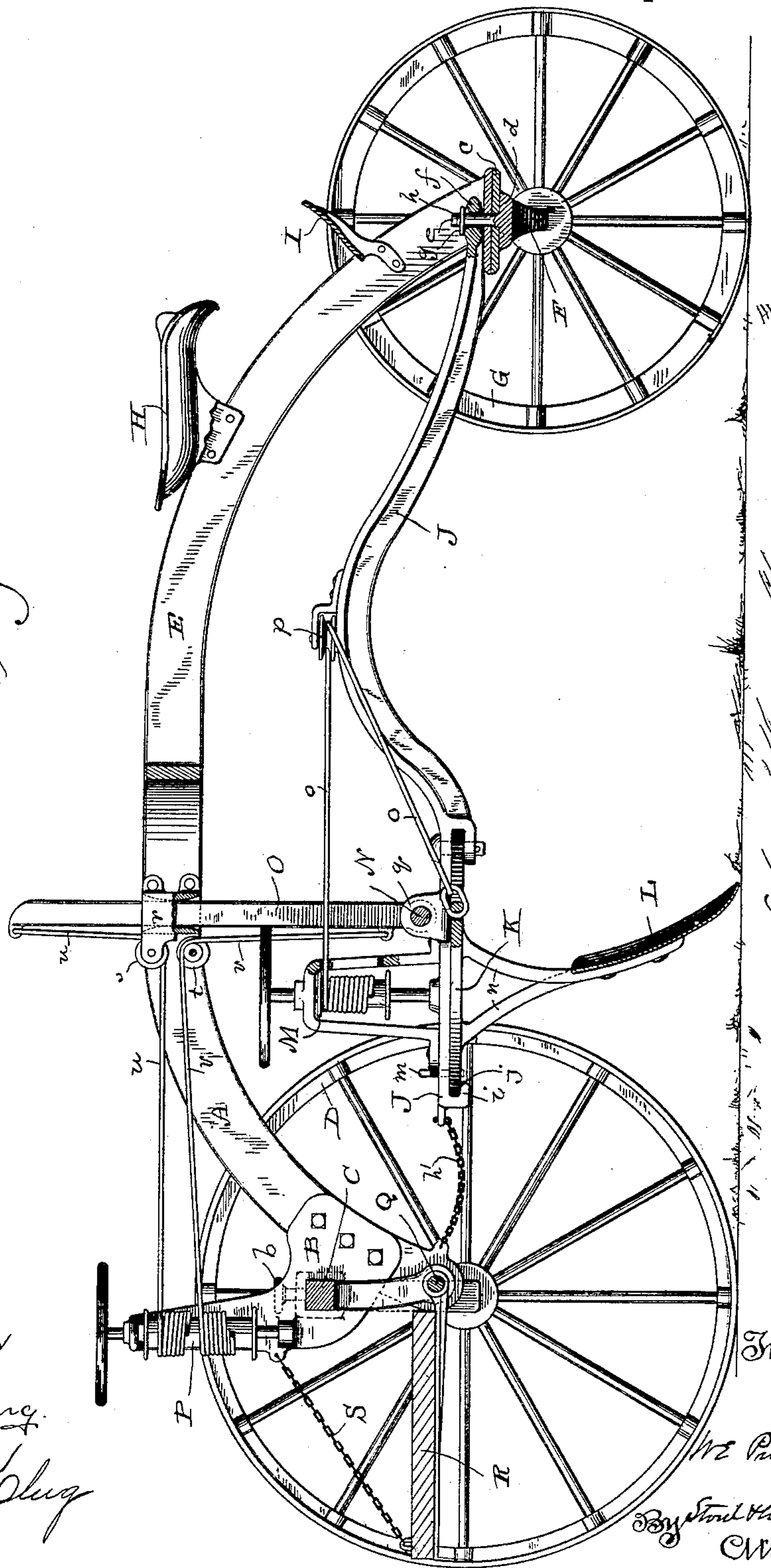
3 Sheets—Sheet 1.

W. E. PUGSLEY.
SCRAPER.

No. 435,712.

Patented Sept. 2, 1890.

Fig. 1.



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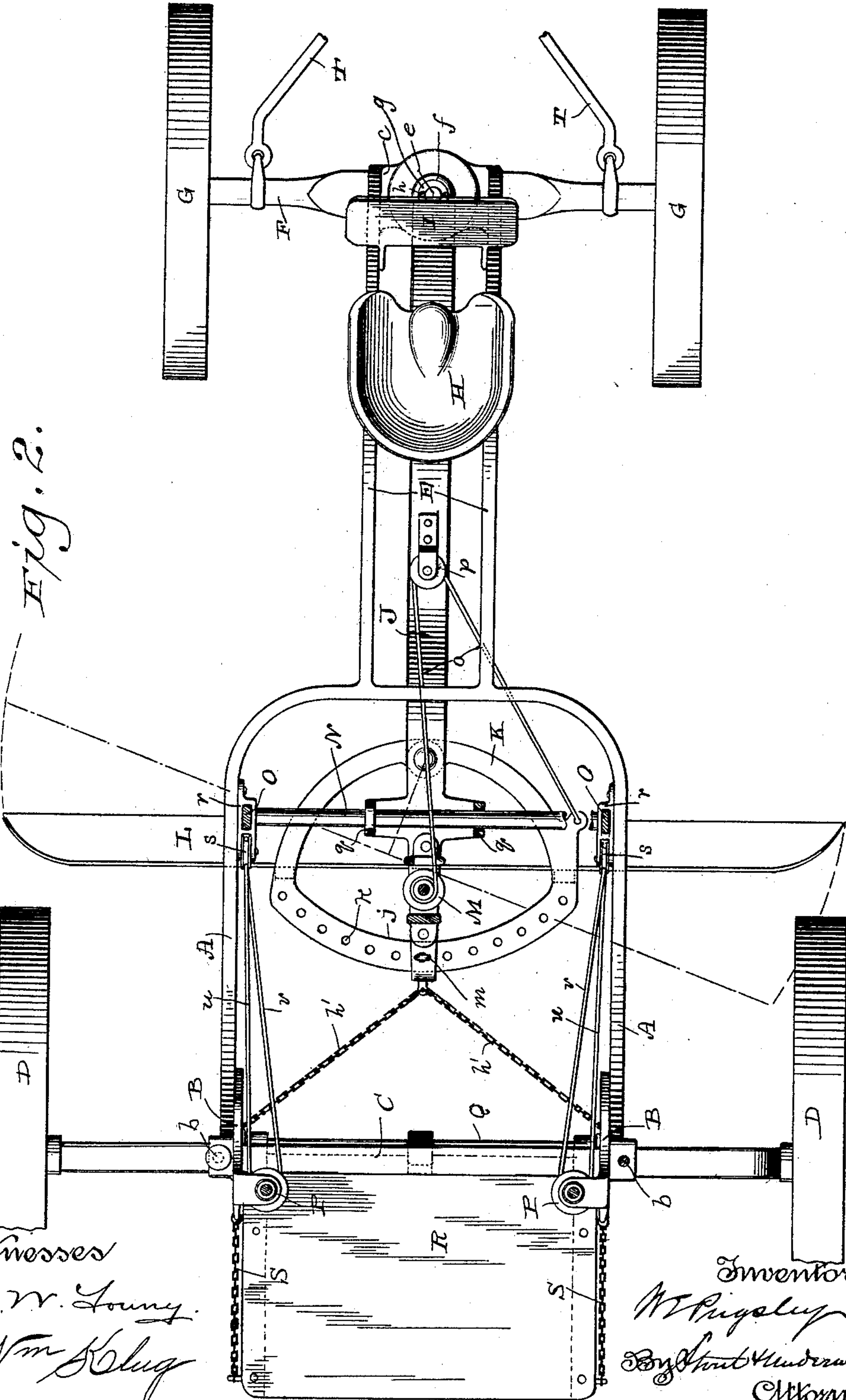
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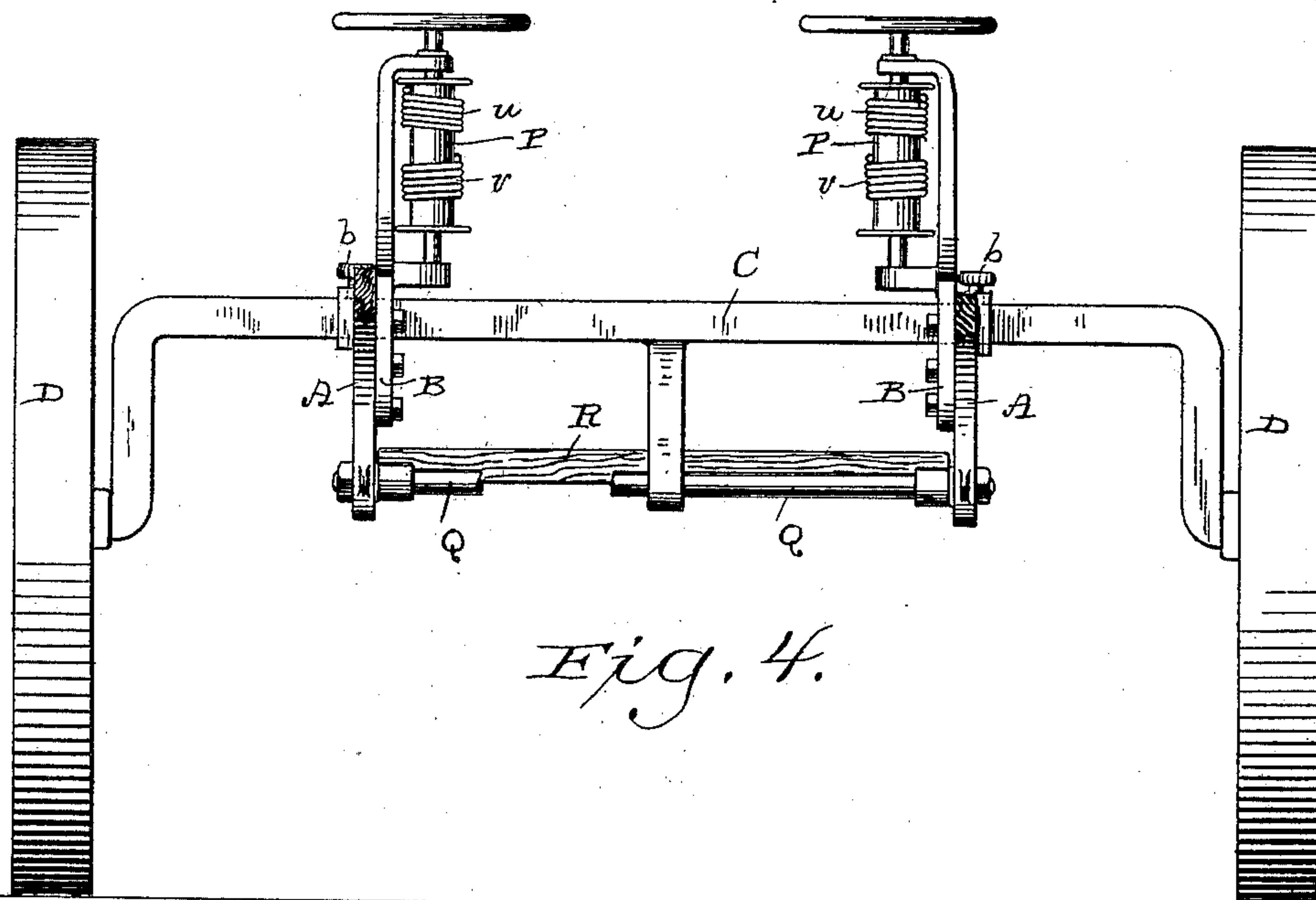
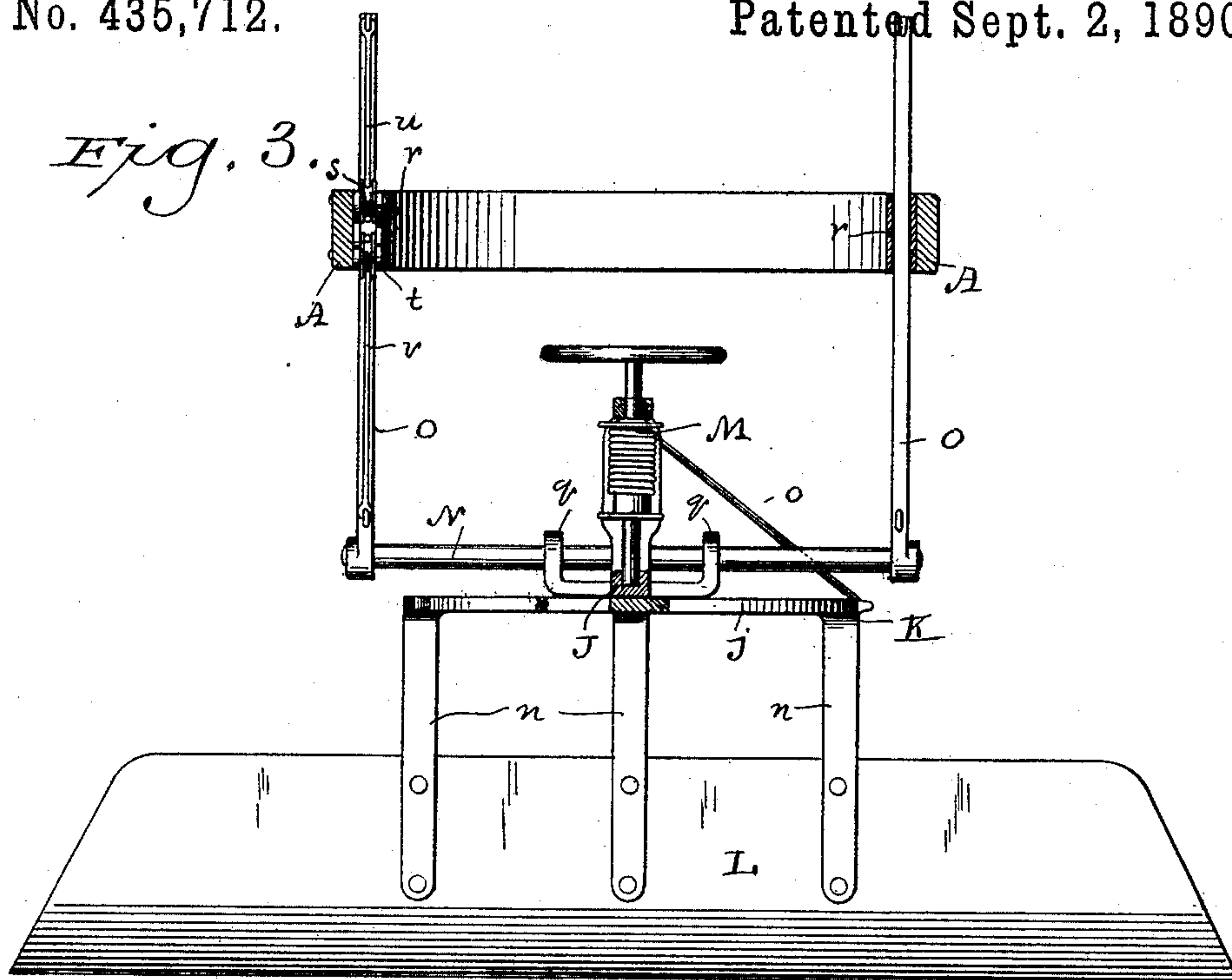
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UNITED STATES PATENT OFFICE.

WILLIAM E. PUGSLEY, OF PARKER, SOUTH DAKOTA.

SCRAPER.

SPECIFICATION forming part of Letters Patent No. 435,712, dated September 2, 1890.

Application filed November 25, 1889. Serial No. 331,467. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. PUGSLEY, of Parker, in the county of Turner, and in the State of South Dakota, have invented certain new and useful Improvements in Scrapers; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to scrapers; and it consists in certain peculiarities of construction and combination of parts to be hereinafter described, with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents an elevation of a scraper constructed according to my invention, certain of the parts being broken away for the purpose of better illustration; Fig. 2, a plan view of the machine, and Figs. 3 and 4 vertical transverse sections with parts broken away, these latter views serving to clearly illustrate the means for adjusting the scraping-blade.

Referring by letter to the drawings, A represents a curved yoke provided with brackets B, that support a laterally-adjustable rear axle C of the machine, this axle being held in its adjusted position by set-screws *b* or other suitable means, and, as best shown in Fig. 4, the ends of this axle are cranked to receive the hubs of the rear wheels D of the machine.

Extended forward from the yoke A are curved parallel arms E, united at their forward ends by a plate *c*, that rests upon a fifth-wheel *d* on an axle F for the front wheels G of the machine, said axle being provided with a stud *e*, that extends up through a perforation in the plate that unites said arms, as is best illustrated in Fig. 1.

Supported on the curved arms E near the front of the machine is a driver's seat H and foot-rest I, and slipped onto the stud *e* on the axle E is the perforated forward end *f* of a truss J, this end of the truss being held against vertical displacement by a washer *g* and pin *h* or other suitable means, and the rear end of said truss is connected by chains *h'* to the yoke A, whereby this latter end of the truss is free to rise or lower, but is prevented from switching from side to side. The rear portion of truss J is provided with a guide *i* for a horizontal skeleton frame K, that is pivoted to said truss and has a segmental rear

portion *j*, provided with a series of perforations *k* for engagement with a pin *m*, that passes through the truss to hold the skeleton frame in any position to which it may be pivotally adjusted. The skeleton frame K is provided with a series of depending arms *n*, and to these arms is secured the scraping-blade L of the machine, the angle of the latter to the line of draft being regulated by the pivotal adjustment of the skeleton frame, this adjustment being effected by means of a chain or cord *o*, attached to an end of said frame, run over a pulley *p* on the truss J, and connected to a vertical winch M, that has its bearings on the rear portion of said truss. The scraping-blade L is preferably of chilled steel and concave upon its working-face.

Near its rear end the truss J is provided with lateral upturned ears *q* for the reception of a transverse rod N, and secured to the ends of this rod are standards O, that extend upward through guides *r* on the yoke A, these guides being provided with bearings for pulleys *s* *t*, over which are run chains or cords *u* *v*, connected to the upper and lower ends of said standards and to vertical winches P, the latter having their bearings on the brackets B, as is best illustrated in Figs. 1 and 4. The cords *u* are arranged to wind on the winches P in a direction opposite to the wind of the cords *v*, and in consequence of this arrangement the scraping-blade L has a positive vertical adjustment in either direction, it being obvious that when one set of cords are winding the other set are unwinding in the same proportion. The ends of the yoke A are connected by a transverse rod Q, and pivotally connected to this rod is a platform R, supported in position for use by means of chains S, attached to the brackets B, said platform being for the use of the man or men who attend to the adjustment of the scraping-blade.

As shown in Fig. 2, the front axle F is provided with hounds T for the attachment of a tongue or other suitable draft mechanism.

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

1. In a scraper, the combination of the truss J, provided with the rear guide *i*, the horizontal frame K, pivotally connected to the

truss and provided with the perforated segmental rear portion *j*, the pin *m*, for engagement with the guide and a perforation in said segmental portion of the frame, the scraping-blade *L*, connected to said frame, the pulley *p* and winch *M* on said truss, and the flexible device *o*, passed around the pulley and connected at its ends to said winch and pivoted frame, substantially as set forth.

2. In a scraper, the combination of the yoke *A*, provided with guides *r* and brackets *B*, a truss, a scraping-blade suspended from the truss, vertical standards *O*, connected to said truss to engage said guides, winches *P*, journaled in said brackets, the pulleys *s t*, and the flexible devices *u v*, passed over said pulleys to connect with opposite ends of the standards and wind on the winches in opposite directions, substantially as set forth.

3. In a scraper, the combination of the yoke

A, provided with the guides *r* and brackets *B*, the truss *J*, having vertical standards *O* connected thereto and engaged by said guides, the stay-chains *h'*, connecting the yoke and truss, a scraping-blade suspended from said truss, winches journaled in said brackets, the pulleys *s t*, and the flexible devices *u v*, passed over said pulleys to connect with opposite ends of said standards and wind on the winches in opposite directions, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Arcadia, in the county of Valley and State of Nebraska, in the presence of two witnesses.

WILLIAM E. PUGSLEY.

Witnesses:

C. H. PERRIGO,

B. B. HAWTHORNE.