

J. W. WESTON.
Road-Scrapers.

No. 144,717.

Patented Nov. 18, 1873.

Fig. 1.

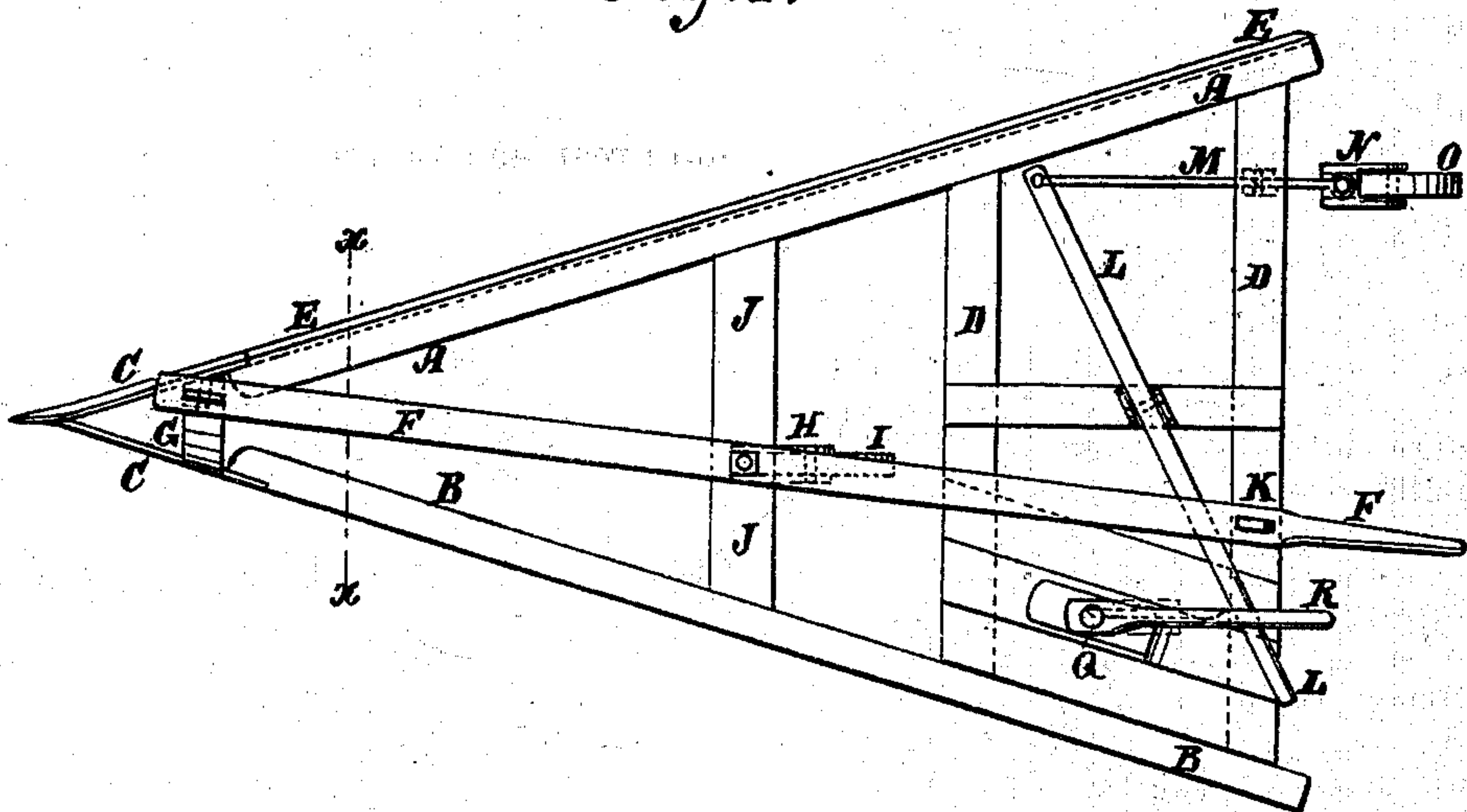


Fig. 2.

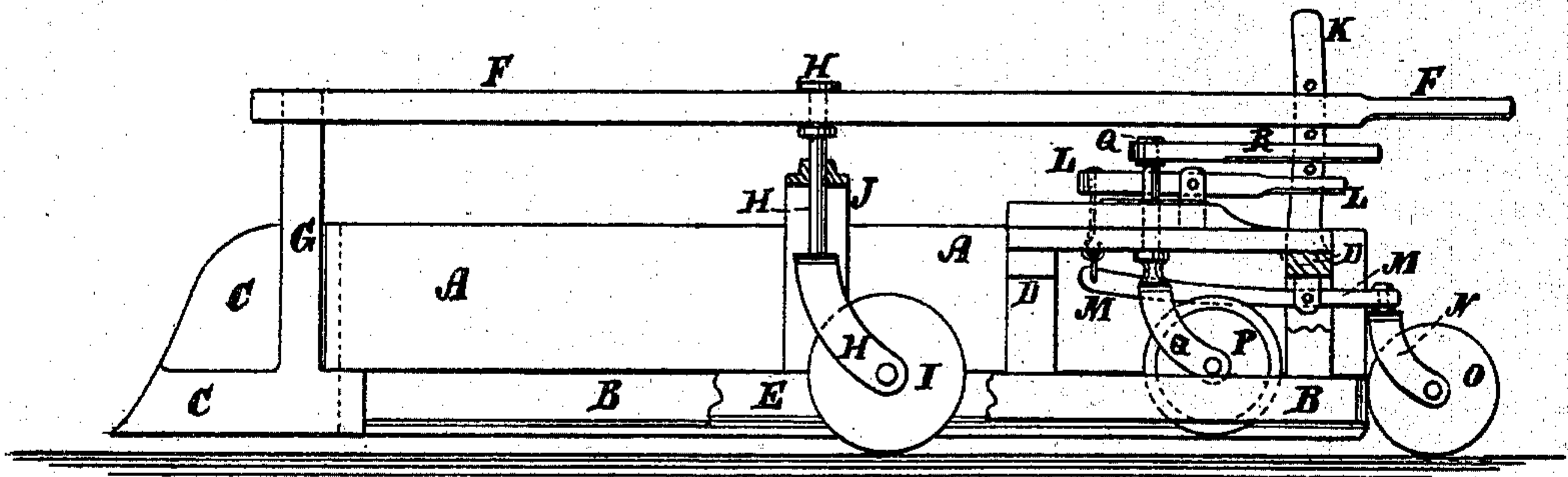
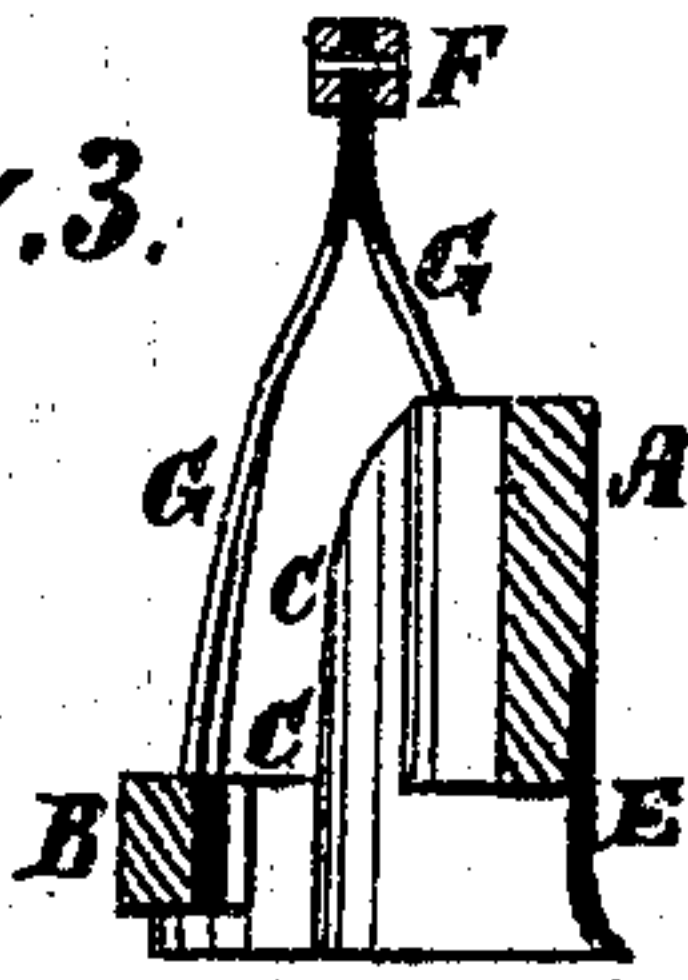


Fig. 3.



WITNESSES.

A. Bennekenhof.
Sedgwick

INVENTOR.

J. W. Weston
BY
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UNITED STATES PATENT OFFICE.

JAMES W. WESTON, OF WINDSOR, ILLINOIS, ASSIGNOR TO TURNER M. JACKSON, OF SAME PLACE.

IMPROVEMENT IN ROAD-SCRAPERS.

Specification forming part of Letters Patent No. 144,717, dated November 18, 1873; application filed October 25, 1873.

To all whom it may concern:

Be it known that I, JAMES W. WESTON, of Windsor, in the county of Shelby and State of Illinois, have invented a new and useful Improvement in Road-Grader, of which the following is a specification:

Figure 1 is a top view of my improved machine. Fig. 2 is a side view of the same, parts being broken away to show the construction. Fig. 3 is a cross-section of the same taken through the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved machine for grading roads, and other similar uses, which shall be simple in construction, inexpensive in manufacture, and effective in operation. The invention consists in an improved grader, formed of the mold-board, the land-side, the point, the cross-beams, the steel plate, the lever provided with a caster-wheel and locking-bar, the two levers and caster-wheels, and the guide-wheel and its lever or handle, constructed and arranged to operate in connection with each other, as hereinafter fully described.

A is the mold-board, which is made of suitable length and width. B is the land-side, which is made of about the same length, and narrower than the mold-board A. The forward ends of the mold-board A and land-side B are securely attached to a cast point, C, which is made somewhat like a plow. The mold-board A and land-side B incline from each other as they project to the rearward, and are connected by two cross-bars, D, which sustain the side pressure. The lower part of the mold-board A is faced with a steel plate, E, which projects beneath the lower edge of the said mold-board A. The lower part of the mold-board side of the point C and of the plate E are curved or flared, as shown in Fig. 3, to cause them to take a firmer hold upon the ground. F is a lever, the forward end of which is pivoted to a bar, G, attached to the forward ends of the mold-board A and land-side B, or to the point C. To the middle part of the lever F is swiveled the standard H of a small wheel, I. The standard H passes through a

bearing in a bar, J, the ends of which are attached to the mold-board A and land-side B. The rear end of the lever F projects over the rear end of the machine, so that it may be conveniently reached and operated by the driver. By this construction, by bearing down upon the rear end of the lever F, the forward end of the machine will be raised from the ground for convenience in turning. K is a bar, the lower end of which is attached to the rear cross-beam D, and which projects through a slot in the lever F. The bar K has one or more holes formed through it, to receive a pin for securing the lever F in place when adjusted. L is a lever, which is pivoted to a support attached to the cross-beam D; and to its forward end is pivoted the forward end of the lever M, which passes back beneath and is pivoted to the rear cross-beam D; and to its rear end is swiveled the standard N of the caster-wheel O, so that, by lowering the free end of the lever L, the rear end of the machine will be raised and supported upon the said rear caster-wheel O. P is a wheel, the rim of which is made sharp to take a firm hold upon the ground. The standard Q of the wheel O passes up through bearings in a support attached to the cross-beams D, and to its upper end is rigidly attached a lever or handle, R, so that, by turning the lever R in one or the other direction, the machine may be guided as desired.

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

An improved grader, composed of the mold-board A, land-side B, point C, cross-beams D, steel plate E, lever F provided with a caster-wheel, H I, and locking-bar K, the levers L M, and caster-wheel N O, the guide-wheel P Q, and lever or handle R, constructed and arranged to operate in connection with each other, substantially as herein shown and described.

JAMES W. WESTON.

Witnesses:

J. A. LINVILL,
J. K. CONNOVER.