M. B. ERSKINE.

MASTER WHEEL AND ADJUSTABLE TRAVERSE PINIONS, &c.

No. 186,817. Patented Jan. 30, 1877

Fig. 1.

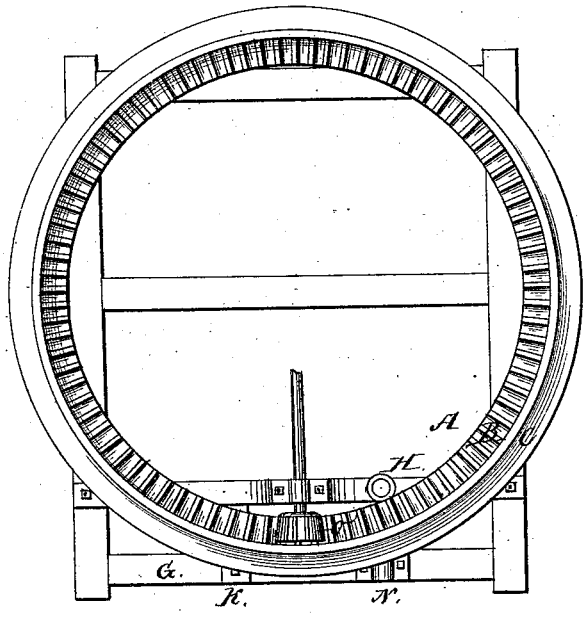


Fig. 2.

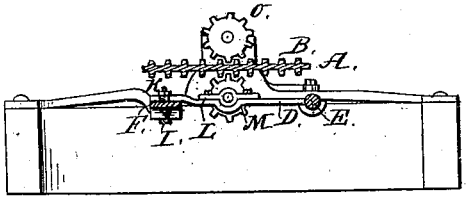
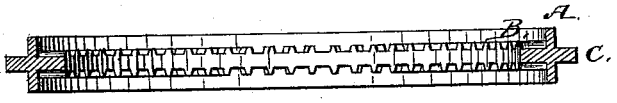


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE

MASSENA B. ERSKINE, OF RACINE, WISCONSIN, ASSIGNOR TO J. I. CASE & CO., OF SAME PLACE.

IMPROVEMENT IN MASTER-WHEELS AND ADJUSTABLE TRAVERSE-PINIONS, &c.

Specification forming part of Letters Patent No. **186,817**, dated January 30, 1877; application filed June 24, 1876.

To all whom it may concern:

Be it known that I, MASSENA B. ERSKINE, of Racine, in the county of Racine, in the State of Wisconsin, have invented certain Improvements in Master-Wheel and Adjustable Traverse-Pinion, of which the following is a specification:

My invention has for its object a master-wheel that can be used either side up, and thus wear twice as long as wheels that can be used on one side only, and an adjustable traverse-pinion which can be raised or lowered to accommodate itself to the run of the master-wheel.

Figure 1 is a plan view of the master-wheel, pinion, and frame. Fig. 2 is a vertical section of the same, and Fig. 3 is a vertical view of that portion of the wheel behind its diameter.

A is the master-wheel; B, the cogs on both sides of same; C, the flange on its periphery, which flange will occupy the same position when either side of the wheel is up, and, being in the center of the periphery, will aid the casting by cooling, without springing the wheel; D, the bearing for the pinion; E, the journal sustaining one end of the bearing D. This journal, one end of which is in box N, and the other in a loop-ended bolt, passes through the bearing-beam. F, a bar across from girt G to H, and on which rests the end of bearing D; I, a screw-bolt through the bar F and bearing D, with a nut, K, on its top; L, boxes in which the shaft of pinion M runs; O, pinion running in the cogs on top of master-wheel.

To adjust the traverse-pinion, unscrew the nut on the top of screw I, and put under the bearing D; or take out a piece of packing, which should be placed under the end of bearing D in the first place, as may be necessary to raise or lower the bearing D, and then screw up the nut again, and the pinion is adjusted the right height, and the master-wheel, when the cogs are worn by the driving-pinion, can be turned over and used the other side up.

I claim as new and as my invention—

1. A master-wheel that can be used either side up, with flange C on the outside of same, substantially as described.

2. Traverse-pinion M, with adjustable bearing D, journal E, and screw I, all in combination, substantially as described.

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Witnesses:

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