J. M. CHILDS.

FASTENINGS FOR SECTIONAL RATCHET WHEELS.

No. 185,015. Patented Dec. 5, 1876.

Fig. 1

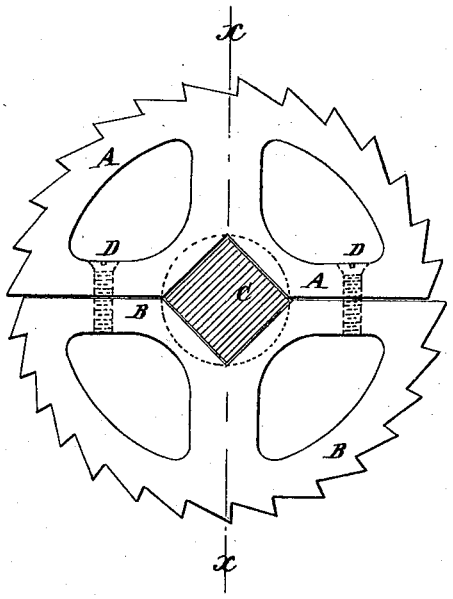
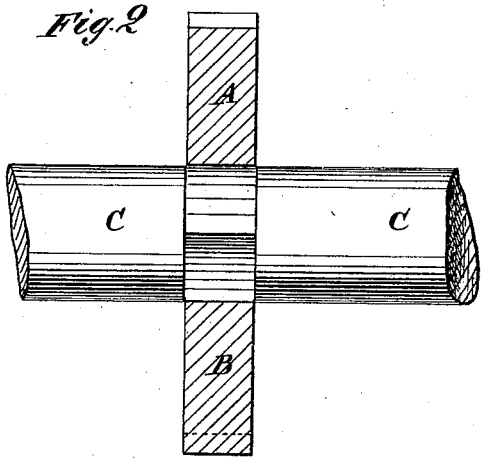


Fig. 2



WITNESSES:

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IMPROVEMENT IN FASTENINGS FOR SECTIONAL RATCHET-WHEELS.

Specification forming part of Letters Patent No. **185,015**, dated December 5, 1876; application filed October 30, 1876.

To all whom it may concern:

Be it known that I, J. MORRIS CHILDS, of Utica, in the county of Oneida and State of New York, have invented a new and useful Improvement in Fastenings for Sectional Ratchet-Wheels, of which the following is a specification:

Figure 1 is a side view of a ratchet-wheel to which my improvement has been applied, the shaft being shown in section. Fig. 2 is a section of the same, the shaft being shown in side view.

Similar letters of reference indicate corresponding parts.

The object of this invention is to secure a ratchet-wheel to the round shaft of a hay-rake in such a way that it can be put on and taken off without removing the attachments of said shaft, and in such a way that it cannot slip upon the said shaft, and will carry the shaft with it in its revolution.

The invention consists in a ratchet-wheel fastening formed of the round shaft provided with a squared or flattened portion to receive the ratchet-wheel, and the sectional ratchet-wheel provided with a similarly shaped bore, as hereinafter fully described.

The ratchet-wheel is made in two sections or halves, A B, which are secured to each other and to the shaft C by bolts D. The shaft C is squared or flattened for a space equal to the thickness of the ratchet-wheel A B, and the bore of the sectional wheel is made of the same shape, so that said wheel cannot turn upon the said shaft, while the shoulders of the squared or flattened part of the shaft C rest against the sides of the wheel A B, and prevent the said wheel from moving longitudinally upon the said shaft.

By this construction the shaft C will not be weakened by boring holes through it, and there are no keys to break or become lost, so that there will be no danger of breakage from the sudden strain when the ratchet-wheel is thrown into gear, to raise the rake-teeth and discharge the collected hay.

I am aware that ratchet-wheels have been made in sections secured to each other by bolts, and I am also aware that sectional ratchet-wheels have been secured to their shafts by keys and pins. These constructions I do not claim; but,

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

A ratchet-wheel fastening formed of the round shaft C, provided with a squared or flattened portion to receive the ratchet-wheel, and the sectional ratchet-wheel A B, provided with a similarly-shaped bore, substantially as herein shown and described.

J. MORRIS CHILDS.

Witnesses:

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