

UNITED STATES PATENT OFFICE.

EDWARD WEISSENBORN, OF NEW YORK, N. Y.

NEW METHOD OF MAKING IRON CHAINS.

Specification forming part of Letters Patent No. 33,014, dated August 6, 1861.

To all whom it may concern:

Be it known that I, EDWARD WEISSENBORN, of the city, county, and State of New York, have invented a new and useful Mode or Method of Making Iron Chains of all Sizes; 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 figures of reference marked thereon.

The nature of my invention consists in welding the links throughout their entire circumference at one and the same instant, so that each portion of the link is equally strong with the other portions, in rolling out the link after it has been welded in the shape shown at Figure A into a ring with a larger diameter, making the surface smooth and even, annealing the iron and making it more dense and tough.

To enable others skilled in the art to use my invention, I will proceed to describe the said method or process.

I cut a piece of iron from a rectangular bar the requisite length to wind into a ring, as shown at figure 1, so that the ends shall come opposite each other on the sides of the ring, as shown at figure 2. The drawing shows the form of the bar and its proportion to the size of the ring. I generally scarf it at each end, as shown in figure 1. I then roll or wind the iron into a ring, as shown in figure 2, and then

weld it in one solid piece, as shown in Fig. A. I then roll out the welded ring shown at Fig. A so that it assumes the shape of that shown at figure 3, the section of which is a circle. This ring is then bent to the shape shown at figure 4. The link shown at figure 4 is then slipped through the link figure 5 in the direction of the arrow and then bent into the same shape as figure 5, and then the link figure 5 is closed and forms the link shown at figure 6. I also sometimes inclose a stay-piece or block, as shown at figure 6, at the time of closing and shaping the link. The form of this block or stay-piece is shown in figure 7.

The ring may be formed from any number of folds of iron, according to the size of the ring desired.

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

The method of making chain-links herein described, which consists of winding the iron into a circle or ring of the form shown at figure 2, then welding it throughout its entire circumference in one solid piece before it is linked into chain, and rolling it out so that its section will be circular, and so made smooth and fit to be used for chain.

EDWARD WEISSENBORN.

In presence of—

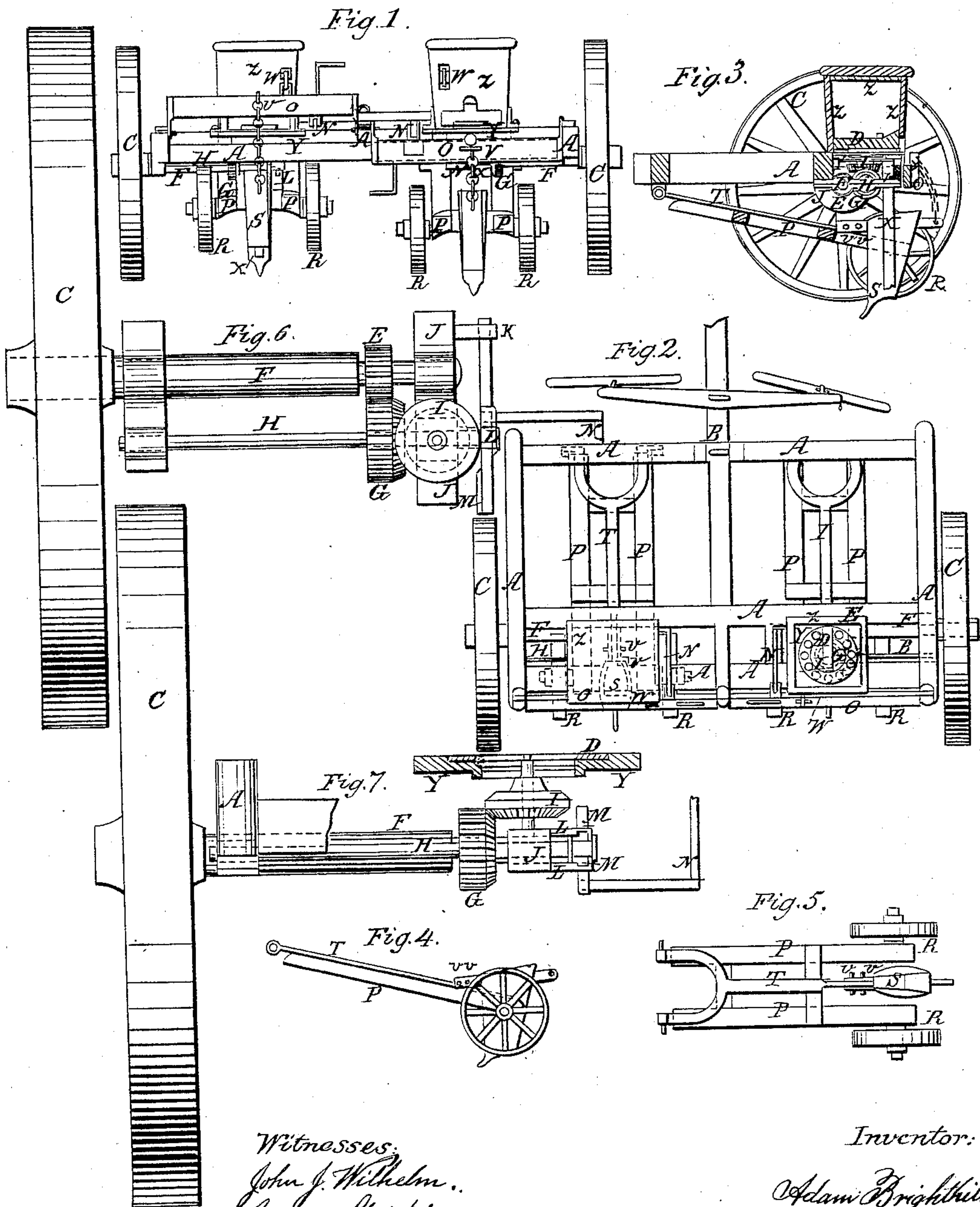
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No. { 2,011, }
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Patented Aug. 6, 1861



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