

W. H. FOYE.
ROTARY-PLOW.

No. 174,796.

Patented March 14, 1876.

Fig. 1.

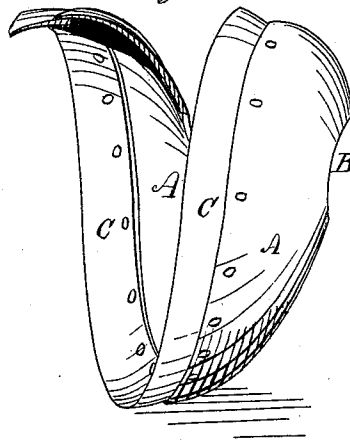
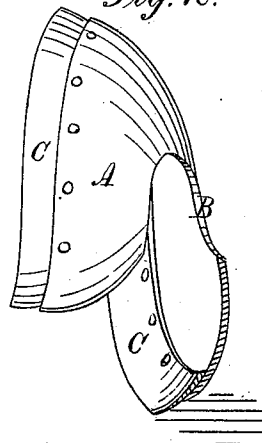


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. FOYE, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN ROTARY PLOWS.

Specification forming part of Letters Patent No. **174,796**, dated March 14, 1876; application filed March 3, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. FOYE, of San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Rotary Plows; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are different perspective views of a spiral plow-cutter constructed in accordance with my invention.

Similar letters in the accompanying drawings denote the same parts.

My invention has for its object to improve the construction of the concavo-convex spiral cutters for rotary plows patented to me January 5, 1875, No. 158,482; and to this end it consists in the combination of a spirally-curved steel cutting-edge with the concavo-convex cutters, for the purpose of stiffening and strengthening them, and to form an edge which can be renewed without destroying or replacing the whole cutter, as I will now proceed to describe:

In the accompanying drawings, A is a concavo-convex spiral cutter, having a central opening, B, to receive the shaft of the plow. As stated in my patent above referred to, a series of these cutters are arranged spirally around a supporting and driving shaft, with their ends abutting against each other so as to form a continuous spiral cutter around the

shaft. The ends of the cutters are supported by collars, which are adapted for adjustment upon the shaft to change the pitch of the cutters, for the purpose of regulating the width of the cut in accordance with the character of the ground to be plowed. The spiral cutters, thus formed, I propose to provide with a steel cutting-edge, by shaping a narrow strip of steel, C, into a spiral curve, and bolting or otherwise fastening it to the edge of each cutter, as shown in the drawings. I prefer to have the fiber run lengthwise of the strip to strengthen the cutters, and to let the ends of the strip break joint with the cutters, which will have the effect to tie the parts together and make the whole stiffer and stronger.

By the employment of the steel cutting-edges the cutters themselves may be made of lighter material, instead of being made wholly of steel, thereby effecting a large saving in the cost of manufacture, and the strips when worn down by sharpening, or injured in any way, can be renewed without replacing the cutters.

I claim as my invention—

The combination of the spirally-curved steel cutting and re-enforcing strip or strips C, with the concavo-convex spiral cutters A of a rotary plow, substantially as described, for the purposes specified and set forth.

WILLIAM H. FOYE.

Witnesses:

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