

N. C. PERRY.

Improvement in Devices for Milling Wire.

No. 126,738.

Patented May 14, 1872.

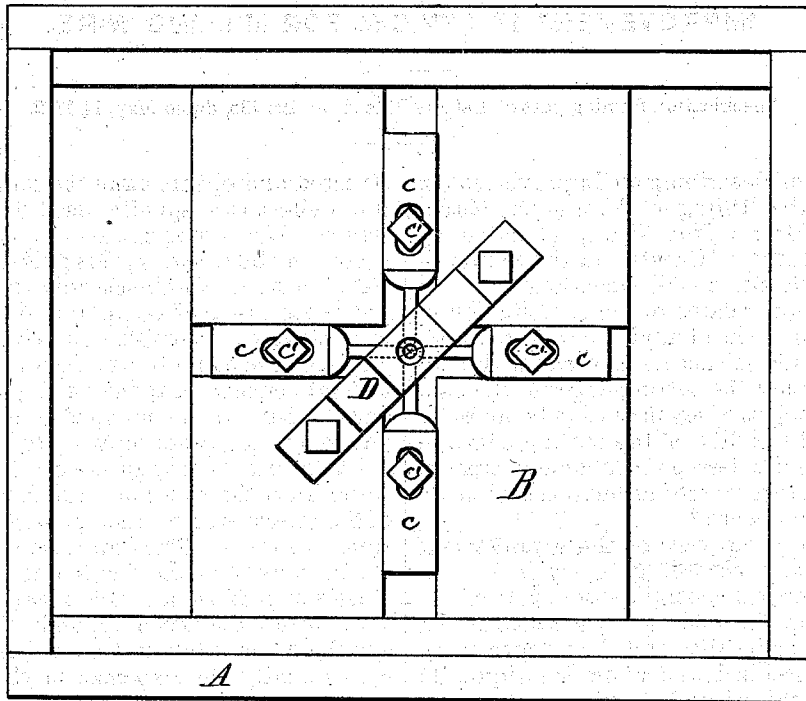


Fig. 1.

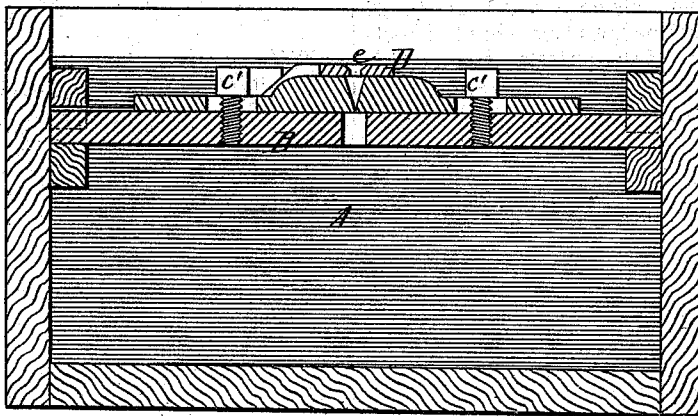


Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

NOAH C. PERRY, OF CHESTER, CONNECTICUT.

IMPROVEMENT IN DEVICES FOR MILLING WIRE.

Specification forming part of Letters Patent No. 126,738, dated May, 14 1872.

Specification describing an Improvement in Devices for the Milling of Wire in the Manufacture of "Bright Iron-Ware," invented by NOAH C. PERRY, of Chester, in the county of Middlesex and State of Connecticut.

My invention relates to the combination of stationary chisels in a liquid, and with a trough holding a liquid in such a manner that the liquid may overflow the cutting-edges of the said chisels; the object of my invention being to increase the durability of the cutting-edges of the chisels, and to lessen the labor and expense of milling the wire for the various articles known as "bright iron-ware."

Figure 1 is a top view of the arrangement for milling wire according to my invention. Fig. 2 is a vertical central section thereof.

A is a trough for holding any suitable liquid. It should be made with sufficient depth to receive the chisel-bed and allow the liquid to overflow the chisels, and of sufficient length to allow chips to be removed without disturbing the chisel-bed. B is the chisel-bed, which is provided with slots to receive the four chisels *c c c c*, which chisels are attached and adjusted by four screws, *c' c' c' c'*, passing through one of the bosses on the sides of the slots, and operating against the chisels. D is a guide attached to the chisel-bed, and provided, directly above the edges of the chisels, with an orifice, *e*, through which the wire is passed to the chisels by a vertical revolving spindle, con-

structed and operating in the same manner as the well-known spindle used for threading screws. When four chisels are used, as represented in the drawing, this guide is not essential; but when two chisels only are employed—their cutting-edges being opposite—the guide is necessary. I combine two chisels with the guide, or use more than two without the guide, and give such form to the cutting-edges of the chisels that, when combined, said edges shall be the counterpart of the work to be performed.

I pour into the trough A a solution of soda in water until the solution rises above the edges of the chisels, said solution preventing the steel from corroding. The arrangement of the chisels in it so obviates friction as to enable the chisels to perform a much greater amount of work without sharpening, and otherwise lessens the labor, while it lessens the waste, and consequently the expense, in the process of milling.

I claim as my invention—

The arrangement of the grooved plate and the stationary adjustable cutters *c* with a tank, A, capable of holding a lubricating material which shall cover said cutters when they are in operation, substantially as specified.

NOAH C. PERRY.

Witnesses:

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