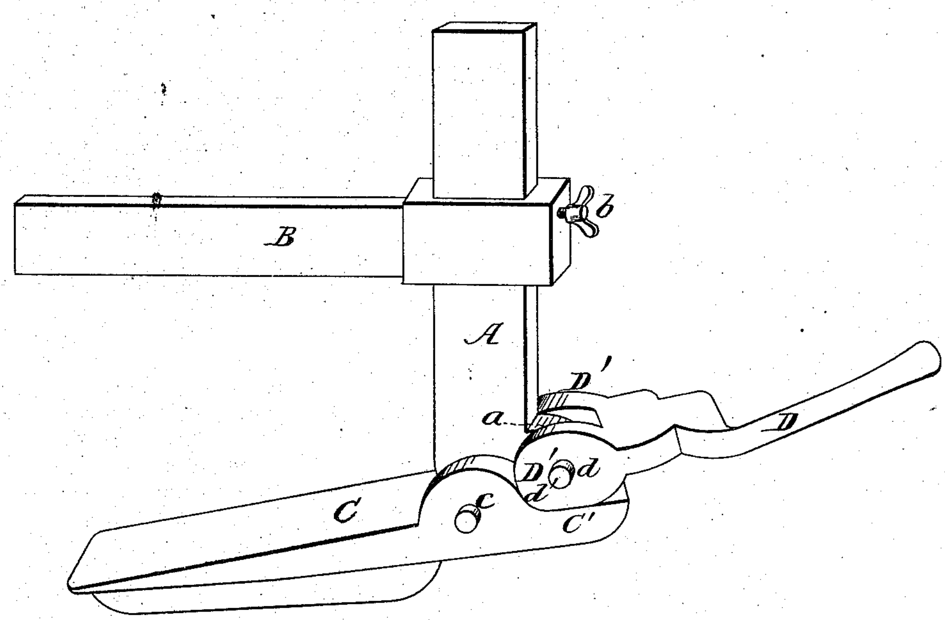
S. RYDBECK.

Clamp.

No. 160,960. Patented March 16, 1875.



Witnesses.

H. C. [illegible]

Wm. E. Chaffee.

Swen Rydbeck
Inventor.
by A. Edw. J. Eils
his Atty

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UNITED STATES PATENT OFFICE.

SVEN RYDBECK, OF RED WING, MINNESOTA.

IMPROVEMENT IN CLAMPS.

Specification forming part of Letters Patent No. **160,960**, dated March 16, 1875; application filed August 26, 1874.

To all whom it may concern:

Be it known that I, SVEN RYDBECK, of Red Wing, in the county of Goodhue and State of Minnesota, have invented a certain Improvement in Clamps, of which the following is a specification:

The object of my invention is to simplify and improve the construction of that class of carpenters' clamps which are composed of a stock, a sliding jaw, and a jaw permanently pivoted to one end of the stock, and jaw opened and closed by a hand-lever through intermediate means; and it consists in the use of a cam-lever, also pivoted permanently on the stock, and operating with its cam-head on the short arm of the pivoted jaw, dispensing with connecting links and rods.

The annexed drawing represents my improved carpenter's clamp in perspective.

A refers to the stock; B, to the sliding jaw, provided with a set-screw, *b*, for fastening it on the stock, and C to the pivoted jaw. The lower end of the stock, to which jaw C is pivoted at *c*, has a rearward extension or lug, *a*, to which the lever D is pivoted just above the short arm C′ of the pivoted jaw at *d*. Both jaw C and lever D are forked to embrace the stock, which has the advantage of affording two surfaces of contact between the eccentric or cam heads D′ of the lever and the short arms C′ of the jaw.

In applying this clamp the lever D is first turned to stand nearly at a right angle to the stock, which turns the swell *d′* of the cam-heads D′ away from the arm C′ of the jaw C, and allows the latter to open a little distance. In this condition the jaws are slipped on the objects to be clamped together, and the sliding jaw is adjusted to fit. The lever D is then turned toward the stock, whereby the eccentric portions of the cam-heads are brought to bear on the arms C′ of the jaw C, so as to turn the latter toward the sliding jaw, causing it to firmly clamp the objects between the two jaws.

As an obvious modification of the cam-heads, eccentric hubs, turning within suitable openings in the arms or forks C′ of the jaw C, might be used, in which case the lever would operate directly on the jaw, both in opening and closing it, whereas, if constructed as described above, it acts on it only in closing.

I am aware that it is not new, broadly, to close the pivoted jaw of a carpenter's clamp by means of a cam-lever, and this I, therefore, do not claim. My improvement consists in applying this principle or mechanism to a special class of clamps, in the manner already clearly described.

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

The herein-described carpenter's clamp, composed of the stock A, sliding jaw B *b*, jaw C C′, permanently pivoted to one end of the stock, and lever D, also permanently pivoted to the stock, and provided with a cam or eccentric head, D′, all substantially as and for the purpose specified.

In testimony whereof I have signed my name to the foregoing specification in the presence of two subscribing witnesses.

SVEN RYDBECK.

Witnesses:

J. C. MCCLURE,

OLOF PETERSON.