

S. Gissinger.

Squeezing Puddled Balls of Iron.

N^o 72387

Patented Dec. 17, 1867.

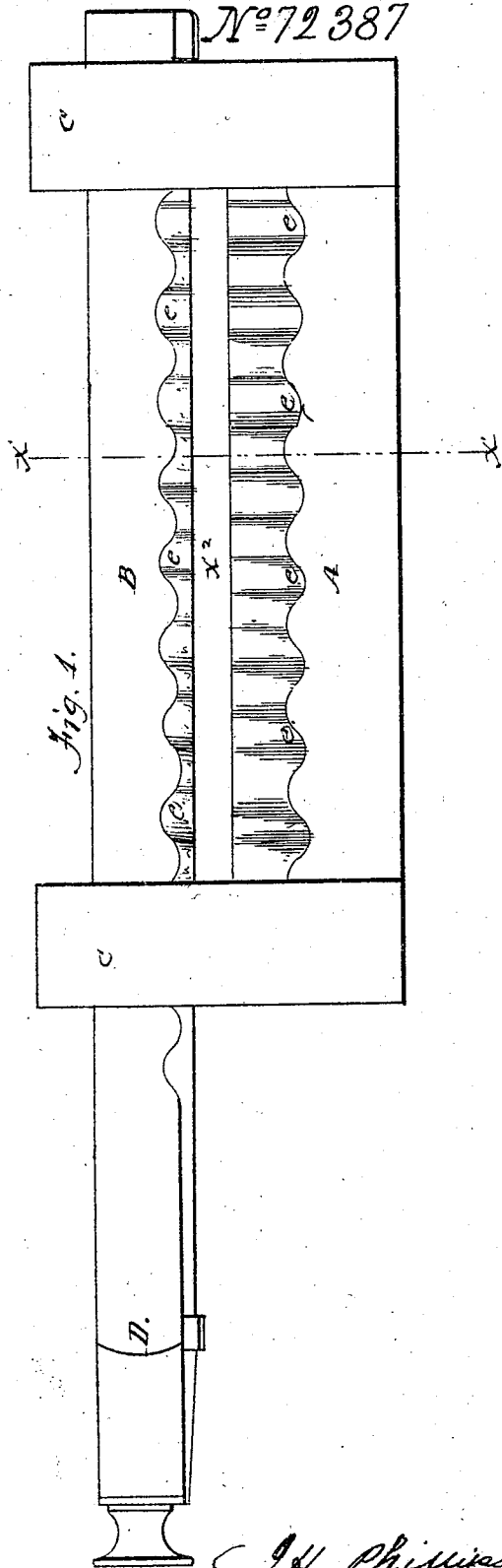


Fig. 1.

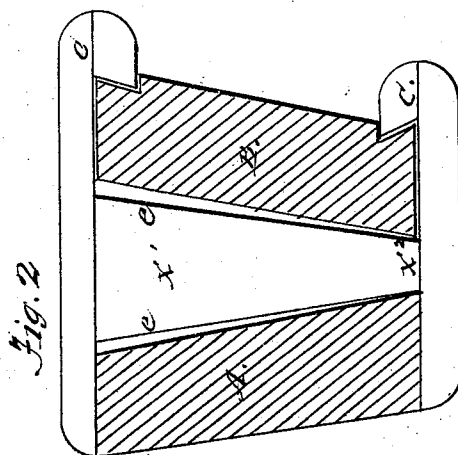


Fig. 2.

attest.

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By his attorney

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SAMUEL GISSINGER, OF LAWRENCEVILLE, PENNSYLVANIA.

Letters Patent No. 72,387, dated December 17, 1867.

IMPROVED MACHINE FOR SQUEEZING PUDDLED BALLS OF IRON.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL GISSINGER, of Lawrenceville, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in "Squeezers" used in the manufacture of iron; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in so constructing "squeezers" used in the manufacture of iron, that they will serve the double purpose of squeezer and muck-rolls, said squeezer being constructed, arranged, and operating in the manner hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation. In the accompanying drawings, which forms part of my specification—

Figure 1 is a top view of my improvement in squeezers.

Figure 2 is a transverse section of the same at line *x*.

In the drawings, A represents a stationary jaw of cast iron, and is provided with guides marked C. This jaw should be made very heavy and strong, and well secured on a strong and solid foundation. The moving jaw B is also made of cast iron, and should be made heavy and of great strength. The jaw B is fitted to the guides C of the jaw A. The jaws A and B are provided with grooves or corrugations marked *e*, which gradually diminish in size and depth from top to bottom of the jaws. The space *x*¹, between the jaws, is V-shaped.

The operating mechanism is attached to the arm D of the jaw B, and is arranged so as to impart a reciprocating motion to jaw B. Motion being imparted to jaw B, the ball of puddled iron is thrown into the space *x*¹, and the motion of the jaw B and the gravity of the ball of puddled iron will compress and roll the iron out into long bars, the diameter of which will correspond to the width of the opening *x*² at the bottom of the jaws. The bars of compressed and rolled iron drop into a suitable pit made directly under the space *x*¹, between the jaws.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention, is—

The corrugated jaws A and B, constructed, arranged, and operating substantially as herein described and for the purpose set forth.

SAMUEL GISSINGER.

Witnesses:

JAMES J. JOHNSTON,
ALEXANDER. HAYS.