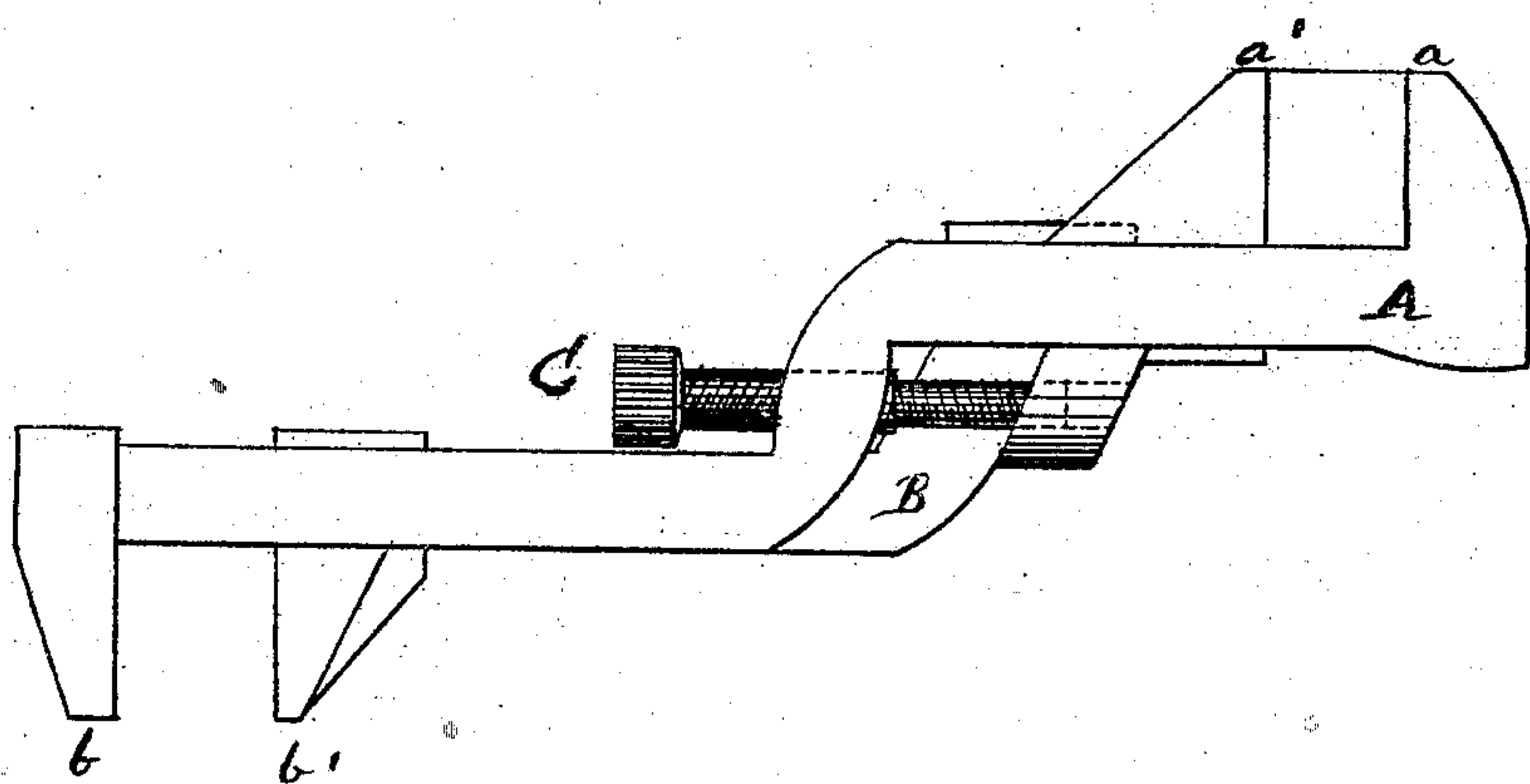


J. Goodin,

Wend.

No. 110,914.

Patented Jan. 10. 1871.



Witnesses
L. L. Evers
A. H. Harris

Inventor
John Goodin
per
Alexander Mason
Atty

United States Patent Office.

JOHN GOODIN, OF JOLIET, ILLINOIS.

Letters Patent No. 110,914, dated January 10, 1871.

IMPROVEMENT IN WRENCHES.

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, JOHN GOODIN, of Joliet, in the county of Will and in the State of Illinois, have invented certain new and useful Improvements in Wrenches; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in forming a wrench in three parts to operate as will be hereinafter described.

In the annexed drawing making part of this specification--

A represents one portion of the body of the wrench, and B, the other. Both of these pieces are cast of malleable iron, and are each provided with two jaws, one at each end.

The jaws *a'* and *b'* are formed upon one of the pieces, while the jaws *a* and *b* are formed upon the other.

The shanks connecting the jaws are bent in the form represented in the drawing, and are both formed very similarly, except that the piece B has recesses cast in its jaws, within which the other piece lies and slides.

C represents a right and left screw, which passes through the elbows of the pieces A and B, and being placed longitudinally of them, when turned to the right or left, either opens or closes the jaws at one end of the wrench.

When the jaws *a a'* separate by the action of the screw C, the jaws *b* and *b'* close or move toward each other, and the reverse.

This wrench is very simple and durable in its construction, and is quickly operated, as the jaws at one end open in an inverse ratio to the closing of those at the other.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is--

The pieces A and B, constructed as described, and used in combination with a right-and-left screw, C, as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of June, 1870.

JOHN GOODIN.

Witnesses;

H. R. BENSON,
MARTIN SHEPHERD.