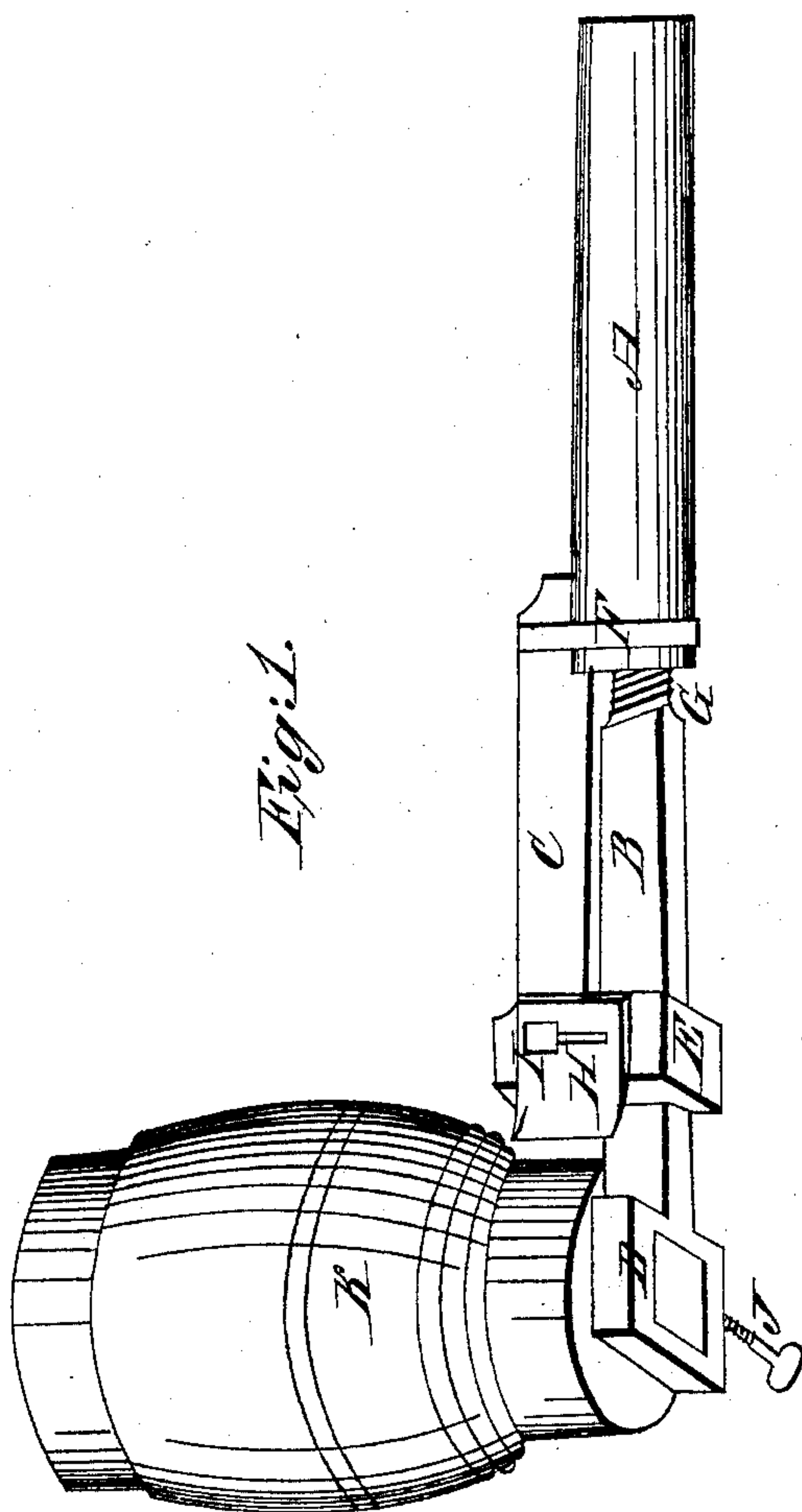


Z. Doolittle,
Turning Regular Forms.
N^o 18,893. Patented Dec. 22, 1857.



Witnesses:

John S. Johnson
Edward Jackson

Inventor:

Zina Doolittle

UNITED STATES PATENT OFFICE.

ZINA DOOLITTLE, OF PERRY, GEORGIA.

MACHINE FOR TURNING THE BAND PORTIONS OF CARRIAGE-HUBS.

Specification of Letters Patent No. 18,893, dated December 22, 1857.

To all whom it may concern:

Be it known that I, ZINA DOOLITTLE, of Perry, in the county of Houston and State of Georgia, have invented a new and useful
5 Machine for Turning the Front End of Carriage-Hubs to the Size of the Band, which I call a "Hand-Lathe;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to
10 the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

A represents a socket nut or handle which
15 receives the screw G on the end of B.

B is a square strap wrench as represented at D, at one end and the screw G at the other.

C is a bar with a strap E at one end
20 through which B passes. The other end is secured to the handle A by the clasp F. Opposite the strap E on bar C is a projection upon which the cutter H is secured by the bolt I, thus making the bar C act as a sliding rest.
25

To operate this lathe raise the wheel by the lifting jack so that it will turn free from the floor then attach the wrench D to the

nutwasher on carriage axle with the set screw J, then set the cutter to agree with
30 the shoulder on the hub and with one hand turn the wheel, and regulate the cutter H, with the other by turning the handle A.

K represents the hub of carriage wheel.

The object of this invention is to do away
35 with the common slow and imperfect process of fitting bands with the mallet and chisel and can be used in the twofold capacity of wrench and lathe, and by changing the cutter H to the other side of the bar C it will
40 apply to either side of a carriage.

I do not claim the exclusive use of any of the parts, taken as parts of the machine described and shown, but only in so far as the same is used in combination, for the purpose
45 of my invention;—but—

I claim

The exclusive use and the combination of the strap wrench D, the handle A and the sliding rest C with the cutter H, the whole
50 arranged and shown substantially for the purpose set forth.

ZINA DOOLITTLE.

Test:

JOHN S. JOBSON,
EDWD. JACKSON.