

(No Model.)

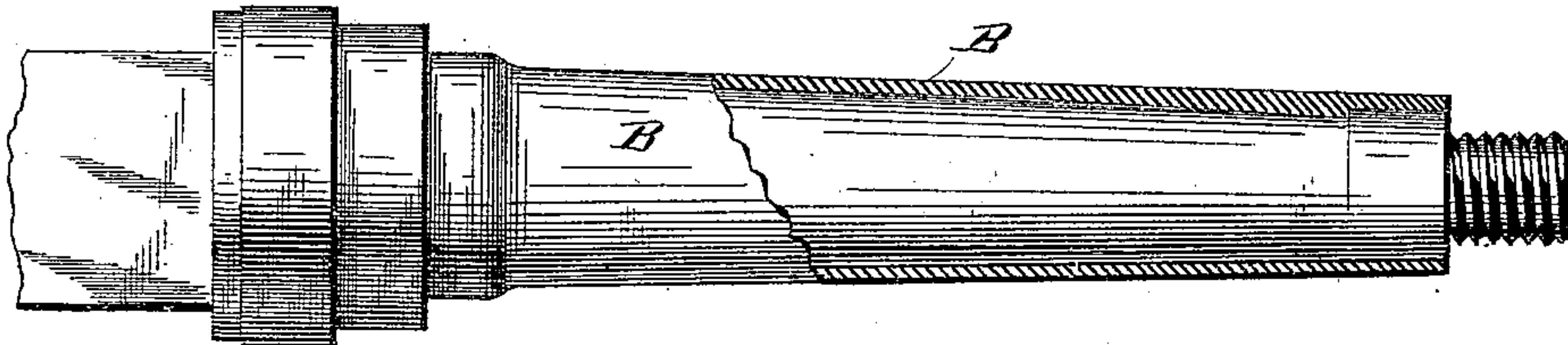
J. H. & A. T. CURRIE.

REPAIRING WAGON AXLES.

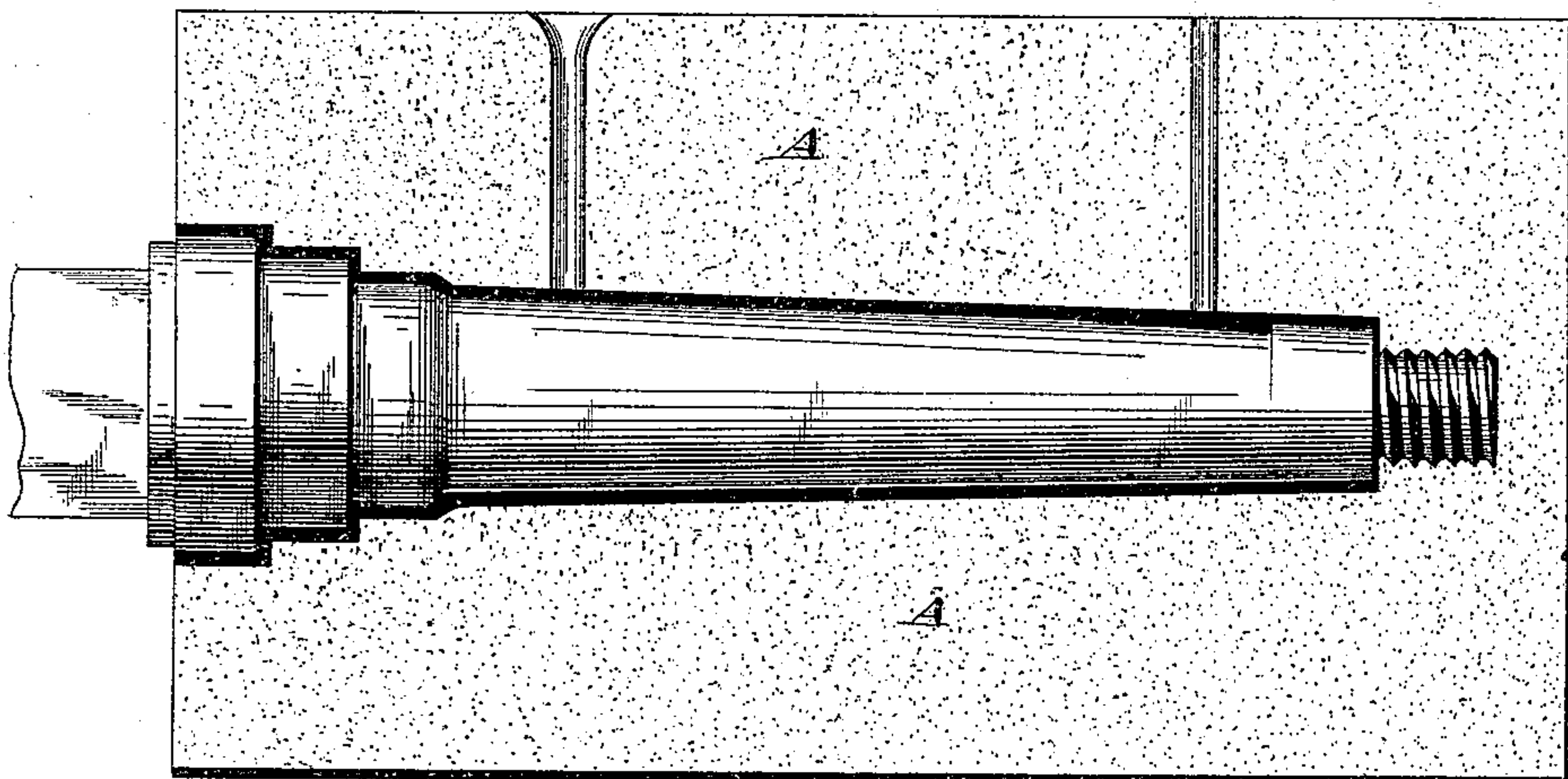
No. 356,031.

Patented Jan. 11, 1887.

*Fig. 1.*



*Fig. 2.*



Witnesses

*Chas. L. Taylor*  
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# UNITED STATES PATENT OFFICE.

JOHN H. CURRIE AND ALONZO T. CURRIE, OF FAISON, NORTH CAROLINA.

## REPAIRING WAGON-AXLES.

SPECIFICATION forming part of Letters Patent No. 356,031, dated January 11, 1887.

Application filed October 18, 1886. Serial No. 216,551. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN H. CURRIE and ALONZO T. CURRIE, citizens of the United States, residing at Faison, in the county of Duplin and State of North Carolina, have invented a new and useful Improvement in Repairing Old Axles, of which the following is a specification.

Our invention relates to an improvement in methods of repairing the spindles of old axles, consisting in placing the said spindle in a suitable mold and running melted Babbitt metal around the spindle in the mold, so as to restore the spindle to its original size and shape, as will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the drawings, Figure 1 is an elevation, partly in section, of the spindle of an axle restored to its normal size and shape by our improved method. Fig. 2 is a longitudinal sectional view of a mold, showing the spindle of an axle inserted therein.

After the spindles of an axle become worn from the friction of the wheels thereon, the wheels work loose and "wabble" on the spindles, thus imparting a disagreeable lateral motion to the vehicle, and also causing the wheels to rattle noisily upon the spindles.

We propose to restore a worn spindle to its original size and shape, and thereby cause it to fit snugly in the hub of the wheel, by inserting the spindle in a suitable mold, A, and run-

ning a quantity of melted Babbitt metal in the mold around the spindle, so that when the metal cools it forms a sleeve, B, around the spindle and restores the latter to its original size and shape.

This method of restoring a worn spindle to its original size and shape is extremely simple and inexpensive, and enables an axle to be used long after it would ordinarily be thrown away as useless.

We do not desire to limit ourselves to the use of Babbitt metal for restoring the spindle to its original size and shape, as other metals might be employed for this purpose without departing from the spirit of our invention.

Having thus described our invention, we claim—

The method of repairing the worn spindle of an axle, consisting in placing the same in a suitable mold and running melted metal around the spindle to restore the latter to its original size and shape, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signature in presence of two witnesses.

JOHN H. CURRIE.  
ALONZO T. CURRIE.

Witnesses:

C. HILL,  
B. C. BOWDON.