

J. M. Mason's

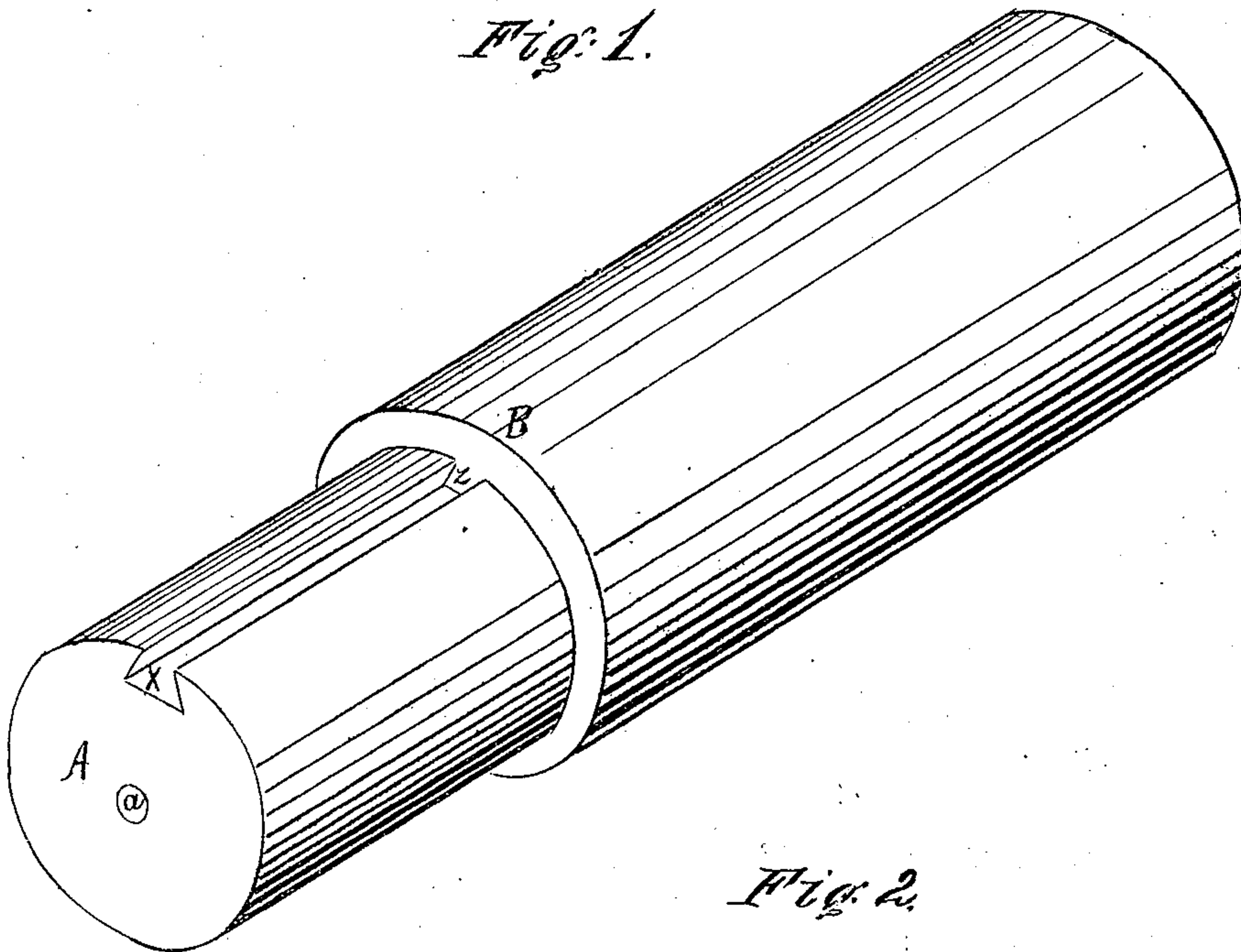
Coupling Shells to Metallic Rollers and  
Rollers to Mandrels

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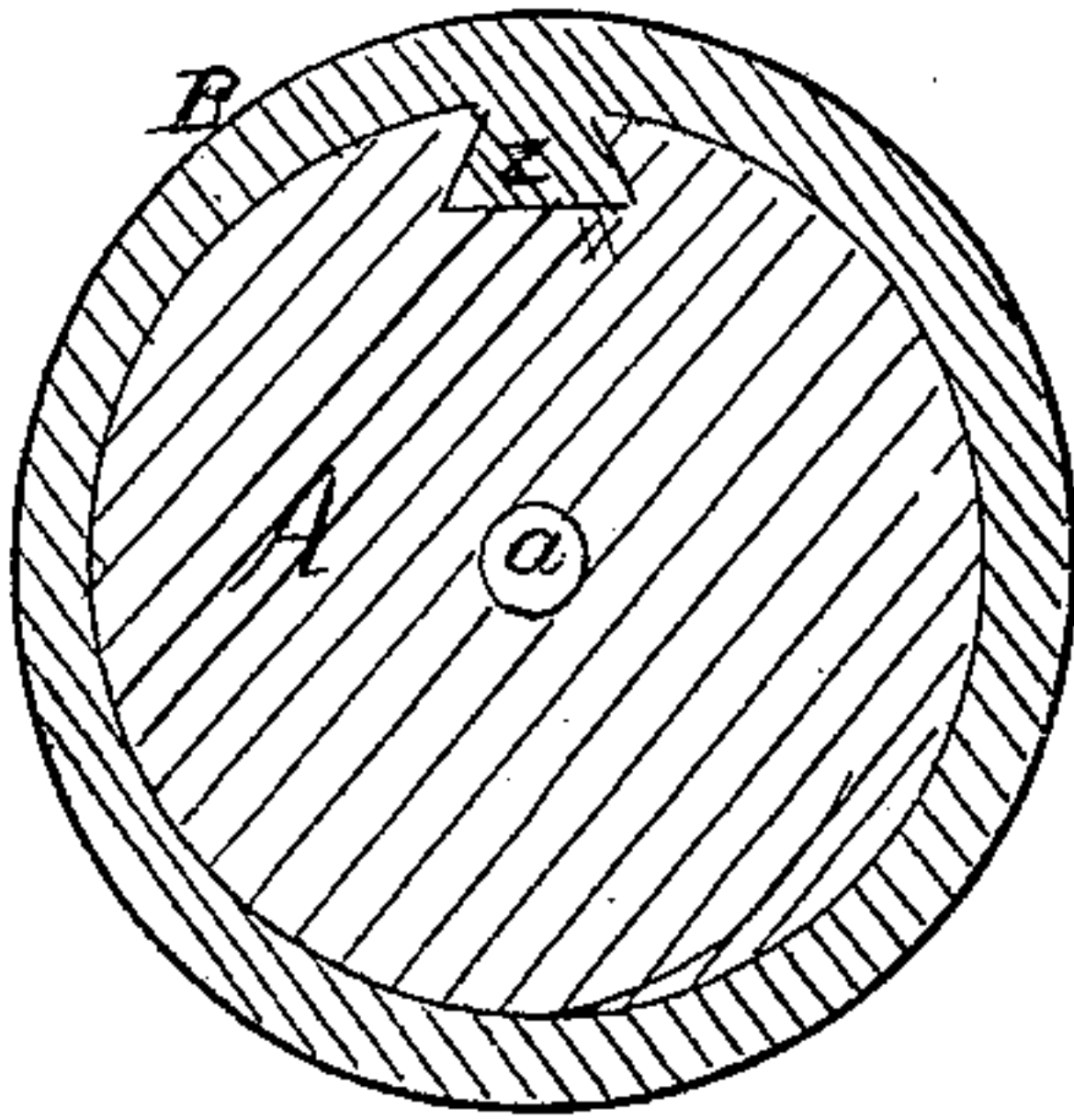
PATENTED

DEC 17 1867

*Fig. 1.*



*Fig. 2.*



Witnesses

Cornelius Cox.  
A. N. Mason

Inventor

J. M. Mason

# United States Patent Office.

J. M. MASON, OF NEW ALBANY, INDIANA, ASSIGNOR TO HIMSELF, OSCAR T. HIGGINS, CHARLES E. WILSON, AND SAMUEL ADLAM, JR.

*Letters Patent No. 72,409, dated December 17, 1867.*

## IMPROVED MODE OF COUPLING SHELLS TO ROLLERS.

*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, J. M. MASON, of New Albany, in the county of Floyd, and in the State of Indiana, have invented certain new and useful Coupling of Shells to Metallic Rollers and Rollers to Mandrels; and 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, making a part of this specification.

In the annexed drawings, A represents an ordinary metallic roller, having a suitable opening, *a*, in the centre, for the insertion of the mandrel. B represents a circular shell or band, which is placed around the exterior of the roller A. The two are connected by means of a dove-tailed tongue, *z*, which is formed on the inner side of this shell, which fits into a dove-tailed groove, *x*, made in the roller A. The tongue on the shell and the groove in the roller are formed the entire length of both. The roller A may be connected to its mandrel in like manner, and the particular angle of the tongue and groove being regulated to suit. This shell B may be of any preferred thickness, and used on any metallic roller that has become worn, reduced in size, or gotten out of round.

In printing-establishments and similar places the rollers become worn down and cast away. By the method set forth the old roller may be utilized by means of the shell, and the time spent in extracting the roller from its mandrel, and placing a new roller thereon, is saved, as well as the expense of the old roller, which is sold as "old metal."

In the coloring or printing of cotton goods, such as calico, the "figure" is formed on the face of a copper roller, and the printing of any required number of yards made from this figure. The roller is then turned smooth, and a new figure cut on the second face, thus in time making the roller too small to be operative. By means of the shell connected as set forth the old roller may be brought into use.

I do not confine myself to any particular kind of roller, or any particular use for which the same is applied. Being aware that old rollers have been utilized by the shrinking of bands thereon, I make no claim thereto.

After the shell is connected to the roller, by means of the tongue and groove, as specified, they are securely held in place together, it being quite impossible that the band or shell can slip or revolve on the roller.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The shell B, coupled to the roller A, by means of the dove-tailed tongue *z*, fitting into the groove *x*, all being constructed substantially in the manner and used as and for the purposes set forth.

2. Utilizing the old roller by means of the shell, when connected together substantially as specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 18th day of November, 1867.

J. M. MASON.

Witnesses:

CORNELIUS COX,

A. N. MARR.