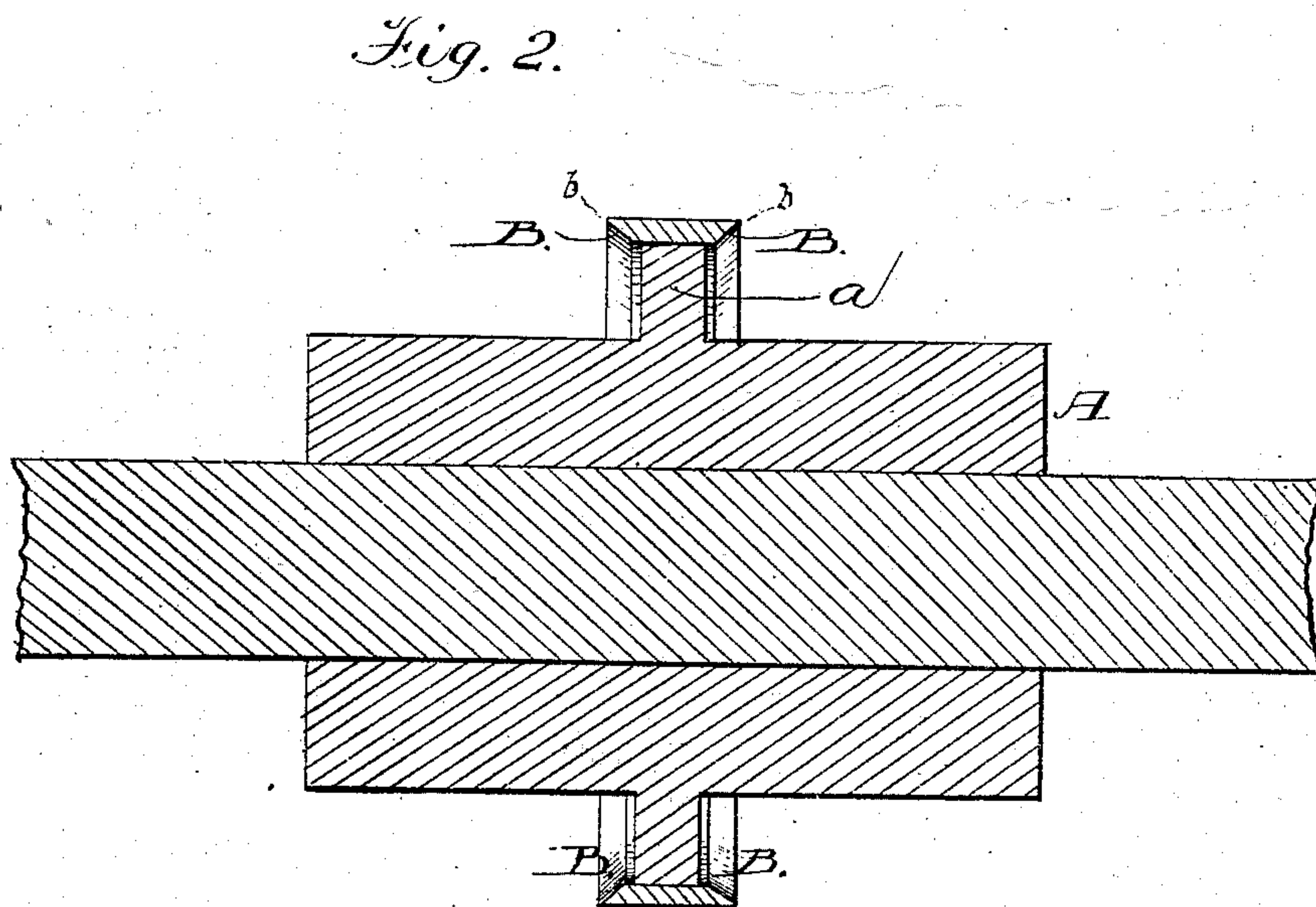
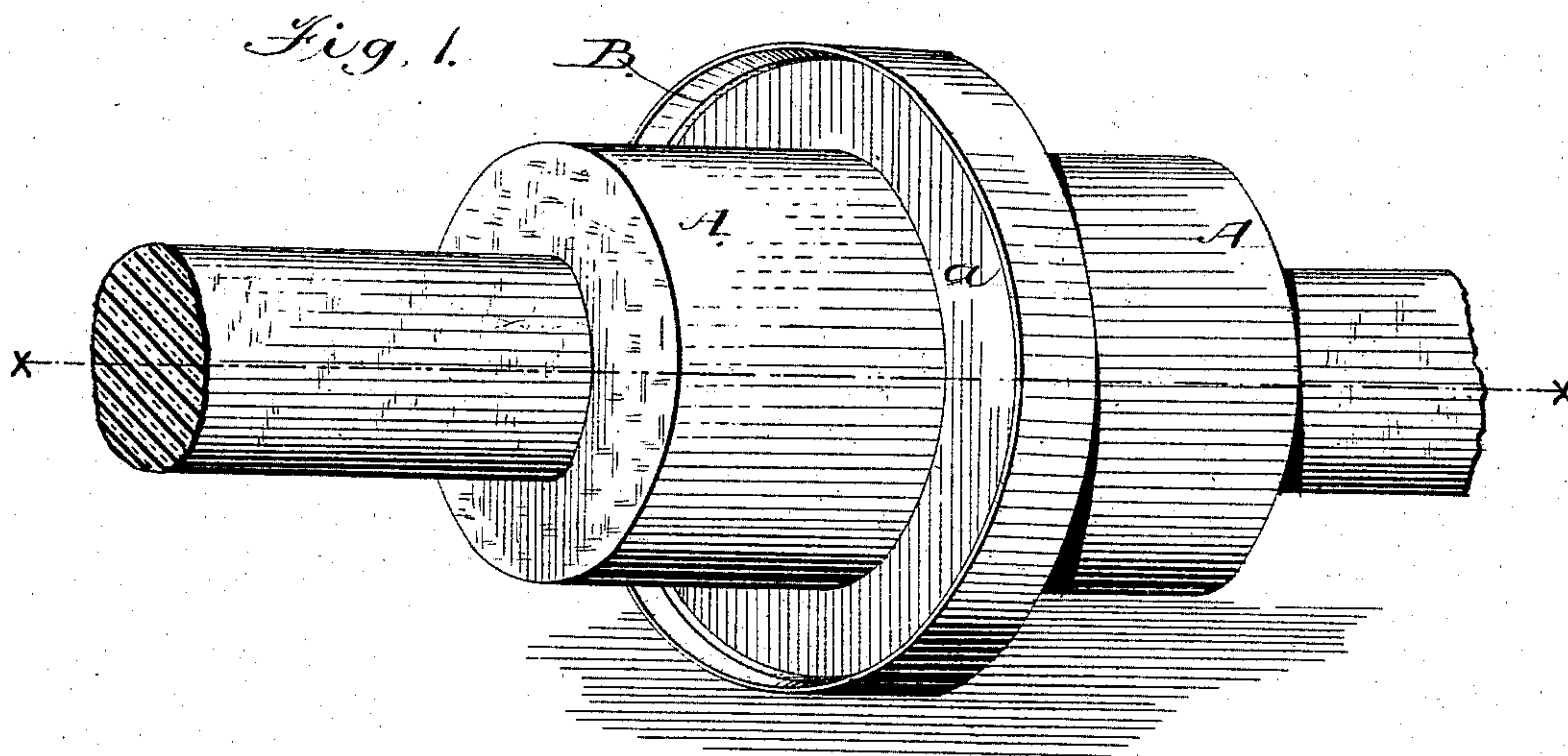


(No Model.)

J. M. SHEW.  
Trimmer and Slitter for Paper Mills.

No. 241,431.

Patented May 10, 1881.



Witnesses;

Charles Fowler,  
Jno. C. Condon

Inventor;

James M. Shew  
per Atty.  
A. H. Evans & Co.

# UNITED STATES PATENT OFFICE.

JAMES M. SHEW, OF PAPER MILLS, MARYLAND.

## TRIMMER AND SLITTER FOR PAPER-MILLS.

SPECIFICATION forming part of Letters Patent No. 241,431, dated May 10, 1881.

Application filed March 18, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES M. SHEW, of Paper Mills, Baltimore county, Maryland, have invented a new and useful Improvement in Trimmers and Slitters for Paper-Mills, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a trimmer and slitter hub with my improvements attached. Fig. 2 is a longitudinal section of the same.

My invention relates to the trimmers and slitters used in paper-mills for trimming the outer edges of the sheet, and then slitting or dividing the sheets into the required sizes; and it consists in the combination of devices, as hereinafter explained and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents a hub, which may be made single or double, as shown, with the enlargement *a* on its periphery, for the reception of the double reversible cutting-surface B, which can be used on either the upper or lower shaft, and changed at will from one to the other. The double hub prevents a tilting of the cutting-edge, which is liable to oc-

cur with the kind of hubs now in use when the set-screws get loose. Around the enlargement *a* on the hub A, I shrink the cutting-surface or band B, shaped as shown in Fig. 2.

By means of this construction of the cutting-surface I secure a double and reversible cutting-edge, so that if one side becomes dulled or unfit for use the hub can be quickly reversed, so as to bring the opposite edge into action, thus avoiding delay of having the edge repaired or sharpened.

It is also evident that my cutting-surface can be readily sharpened by a small file applied at the bevel *b*.

When my improved cutting-surface is worn out it can be readily removed from the hub and a new one shrunk on it without injury to the hub and with but little loss of time.

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

In a trimmer and slitter for paper-mills, the hub A, provided with the enlargement *a*, in combination with the band B, provided with the beveled edge *b*, and constructed to operate substantially as and for the purpose herein set forth.

JAMES M. SHEW.

Witnesses:

JNO. B. BROWN,  
JOHN A. HURSTS.