

*C.C. Child,
Paper Cutter.*

No. 99759

Patented Feb. 15. 1870.

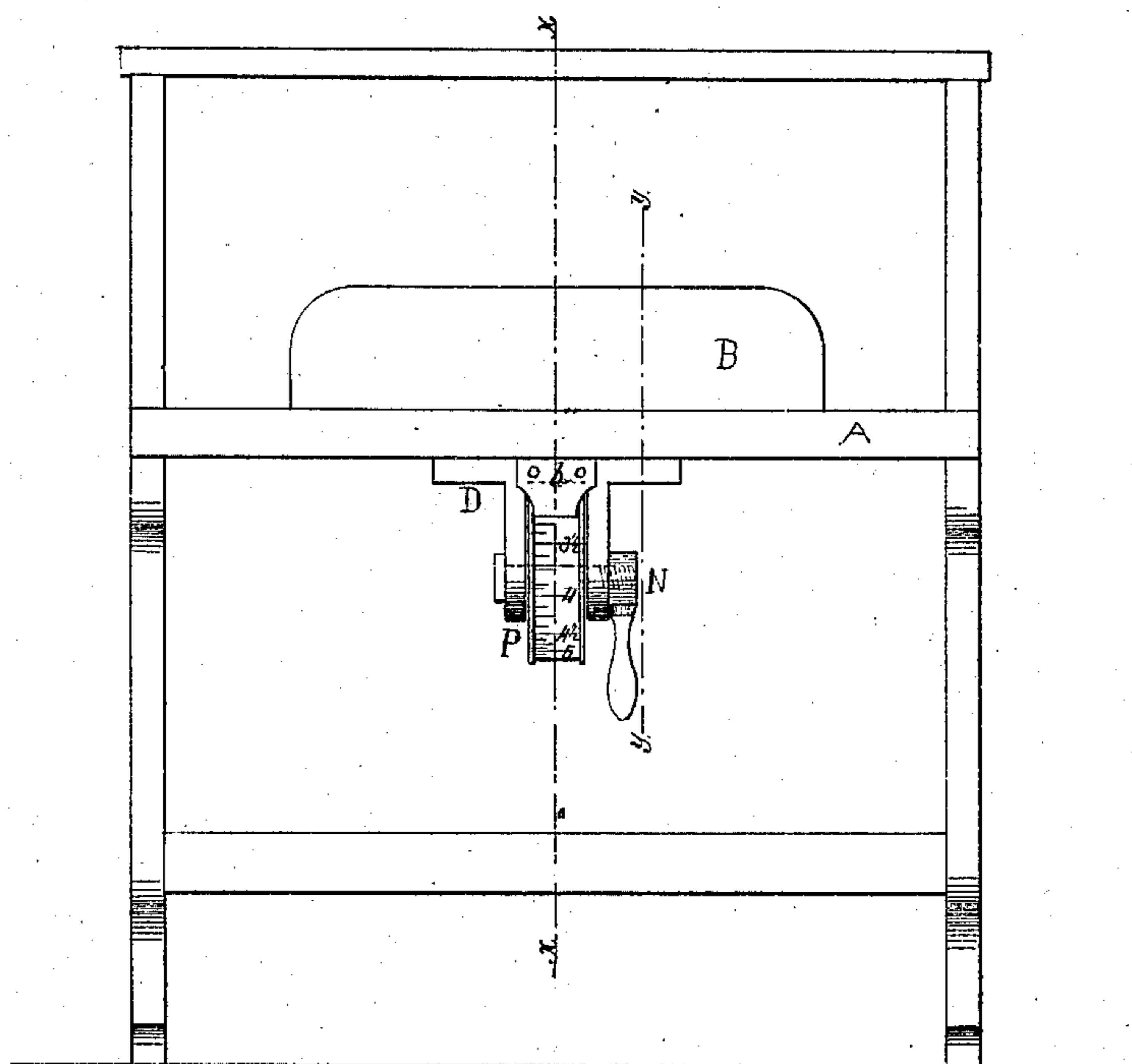


Fig. 1.

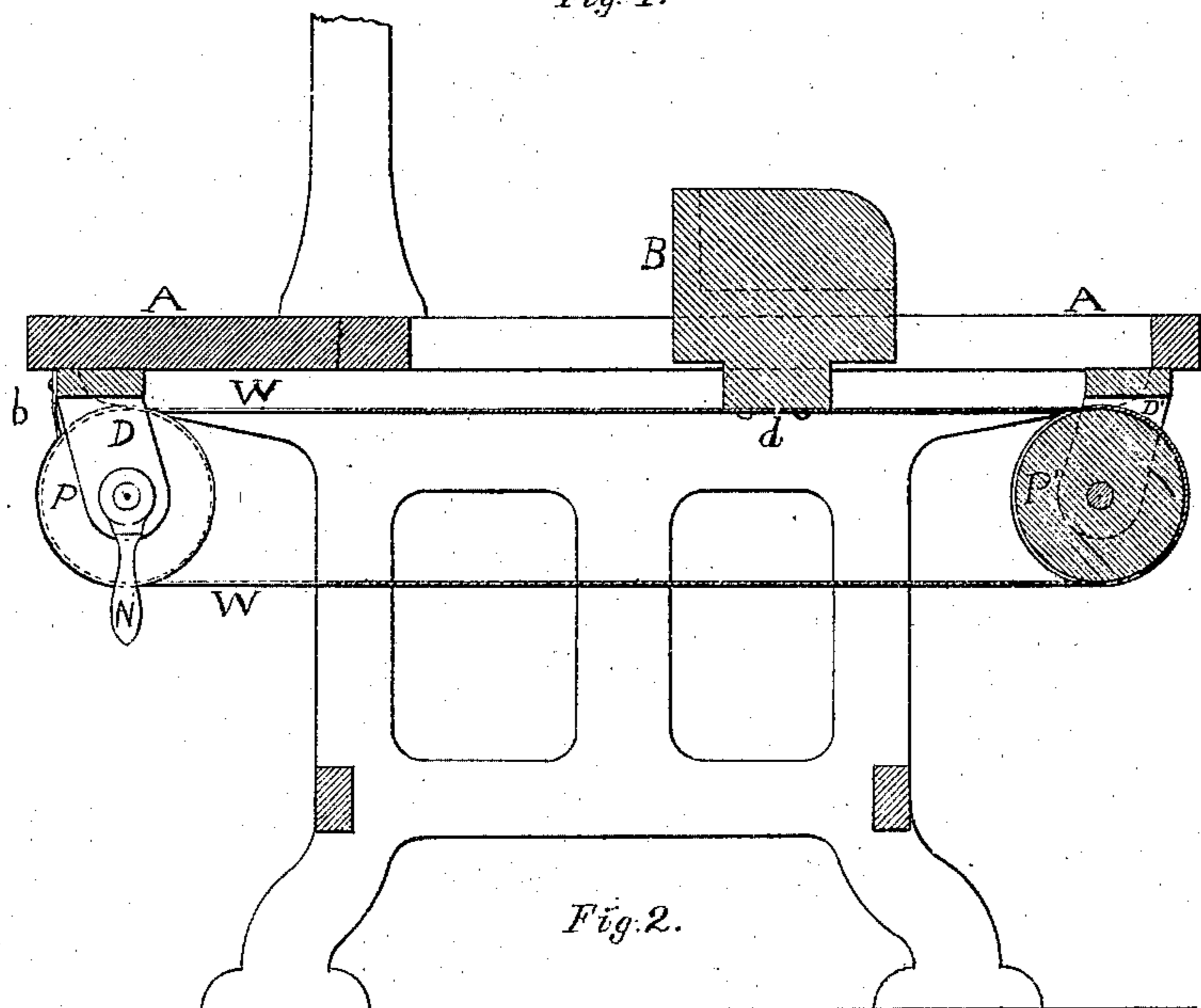


Fig. 2.

Witnesses.

*G. L. Bailey
L. Prouty Jr*

Cyril C Child
Inventor.

United States Patent Office.

CYRIL C. CHILD, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 99,759, dated February 15, 1870.

IMPROVEMENT IN GAUGES FOR PAPER-CUTTING MACHINES.

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, CYRIL C. CHILD, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and improved Mode of Adjusting the Back-Gauge of Paper-Cutting or other Similar Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, which will enable others skilled in the art to make and use it, reference being had to the accompanying drawings forming a part of this specification, in which—

Figure 1 is a front elevation of the frame of a paper-cutting machine with my improvement attached.

Figure 2 is a side sectional view through the lines *x x* and *y y*.

The same letters refer to like parts.

My invention consists in providing for moving the gauge to and from the knife of the machine by means of a metallic band or chain passing over pulleys, and so arranging the parts that the distance between the knife and gauge may be readily and accurately ascertained.

The construction and operation is as follows:

A represents the table of the machine, to the under side of which are attached brackets *D D'*, supporting pulleys *P P'*.

B is the back gauge, a projection from the bottom of which sticks in a slot cut lengthwise through table A.

A strip of thin sheet steel or other flexible metal, about one inch in width and of suitable length, is passed over the pulleys *P P'*, and each end secured to the downward-projecting part of gauge B, as shown at *d*, fig. 2, thus forming a band, W. This latter is prevented from slipping by friction, or short pins may project from the face of pulley P, and engage in perforations made in the band. Slight flanges raised on

each side of the pulleys prevent the band from running off.

An indicator or pointer, *b*, is attached to bracket *D*, over pulley *P*, and band W is so spaced and numbered on its surface that the exact distance in inches and fractions thereof, from the knife to the front side of gauge B, is at all times shown.

Pulleys *P P'* turn loosely on their axles, their hubs nearly filling the space between the arms of the brackets.

The axle on which pulley *P* turns is secured firmly to one arm of its bracket, while it passes loosely through the other, its projecting end having a screw-thread, on which is fitted a lever-nut, *N*.

Its operation is as follows:

The rim of pulley *P* is grasped with the hand of the operator and turned, which moves the gauge, until the exact distance desired between the knife and gauge is shown by the numbers and spaces on the face of the band where it runs over pulley *P*, when lever-nut *N* is turned up, drawing the two arms of the bracket against the hub of the pulley, holding it firmly in place while the paper is being cut.

The spaces and numbers may be placed upon the flange of the pulley, but preferably on the band itself.

Having described my invention,

What I claim, is—

1. The spaced and numbered band W, made and operating substantially as and for the purpose herein described.

2. In combination with the band W, pulleys *P P'* and lever-nut *N*, operating substantially as and for the purpose set forth.

Witnesses:

G. L. BAILEY,
L. PROUTY, Sr.

CYRIL C. CHILD.