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A. BELL.

MEASURING ATTACHMENT FOR PAPER BOX MACHINES.

APPLICATION FILED FEB. 21, 1906.

Fig-1.

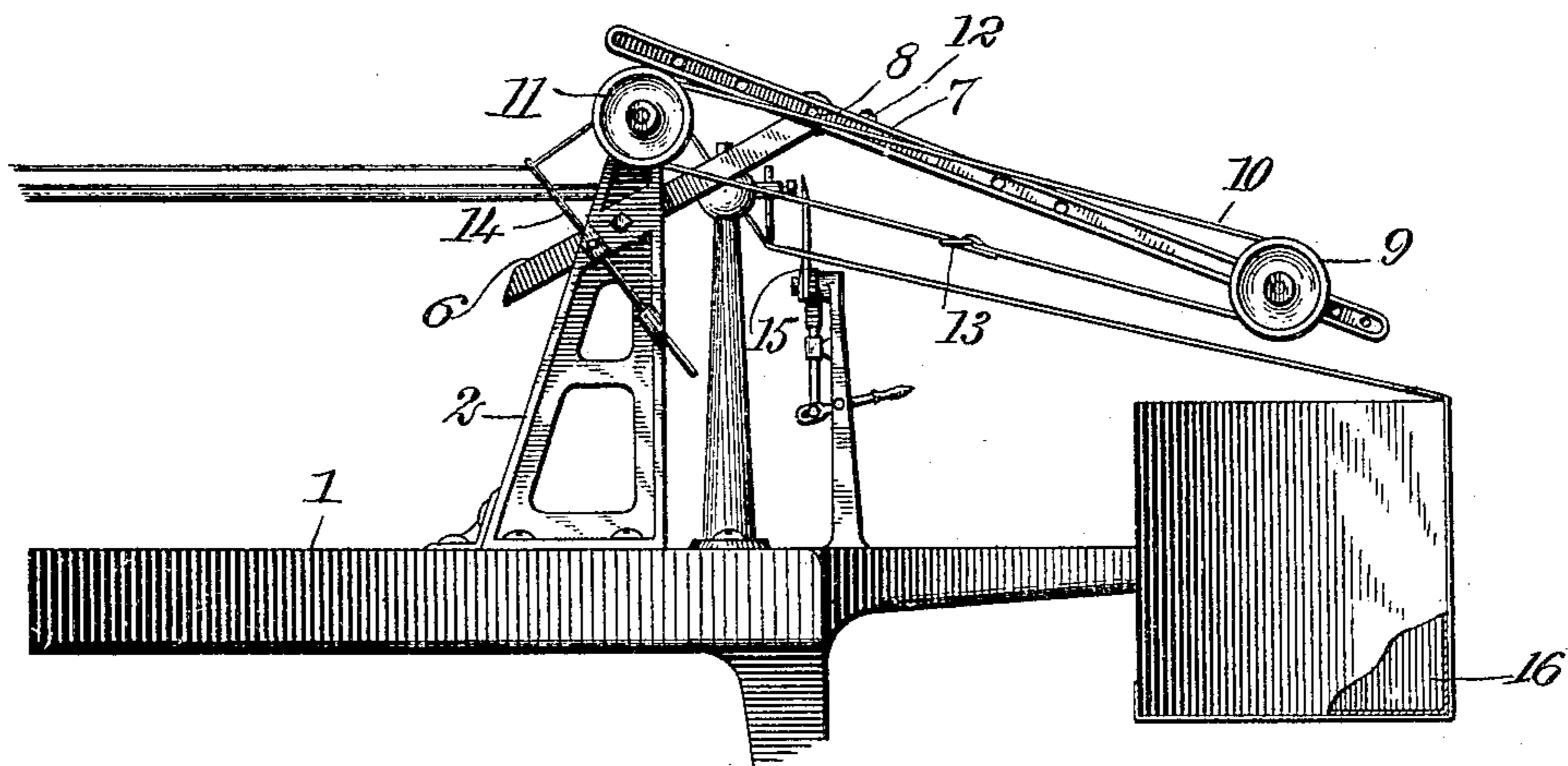


Fig 2.

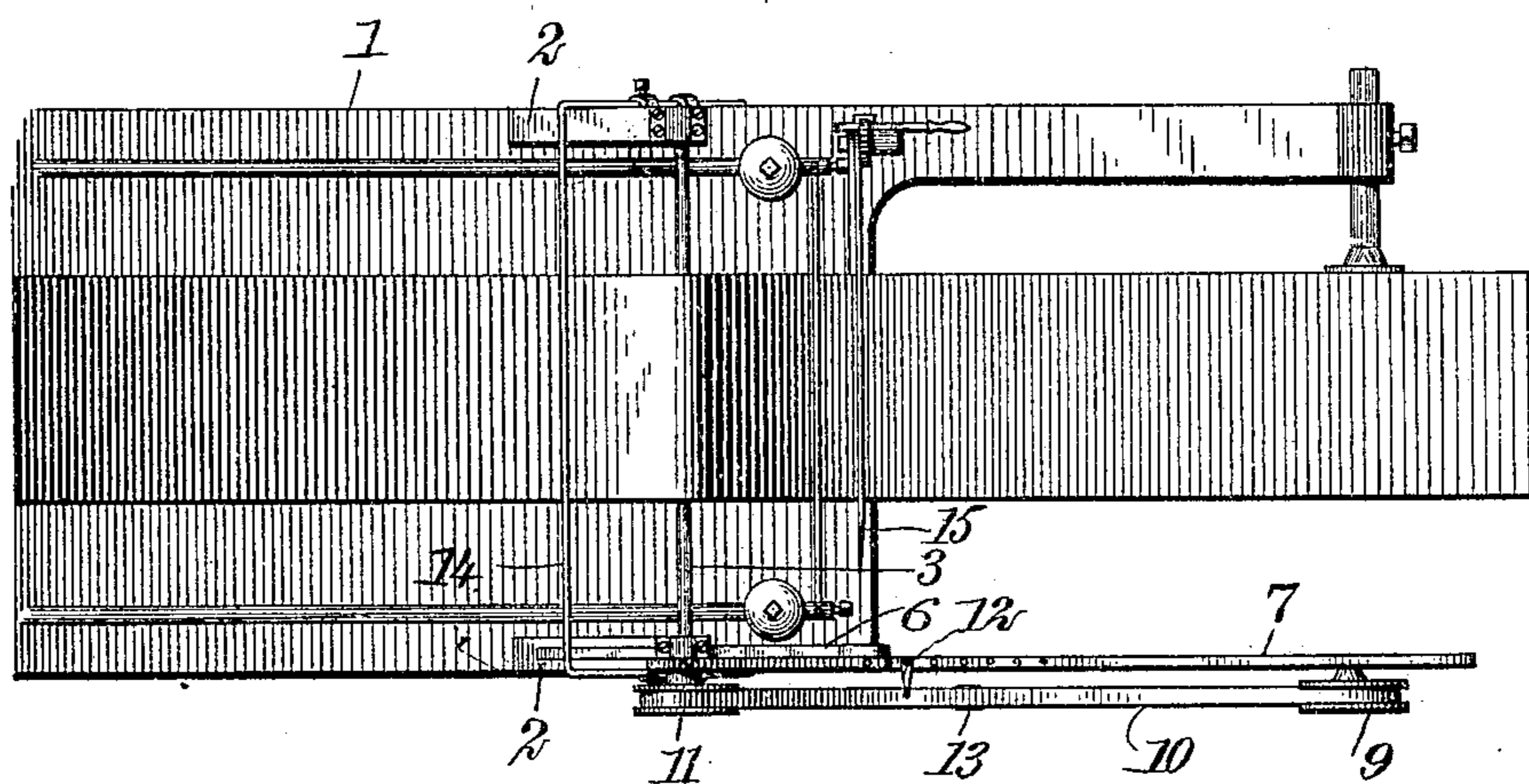
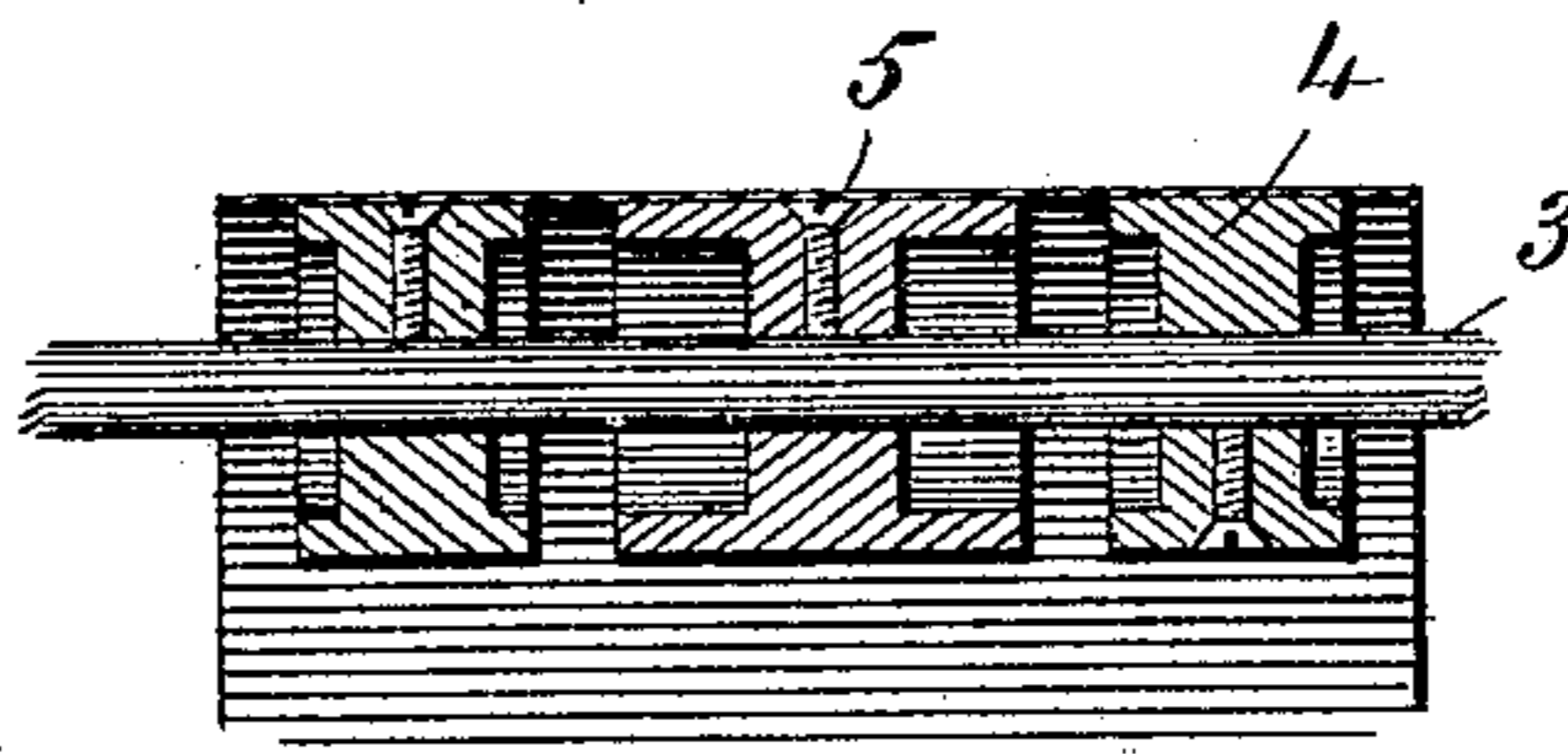


Fig. 3.



WITNESSES:

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MEASURING ATTACHMENT FOR PAPER-BOX MACHINES.

No. 824,464.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed February 21, 1906. Serial No. 302,220.

To all whom it may concern:

Be it known that I, ARTHUR BELL, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Measuring Attachment for Paper-Box Machines, of which the following is a full, clear, and exact description.

This invention relates to improvements in attachments for machines employed in placing the paper covering on the sides and ends of pasteboard boxes and covers, the object being to provide a simple means whereby the desired length of material may be accurately measured, thus resulting in a considerable saving of paper at the overlap.

I will describe a measuring attachment for paper-box machines embodying my invention, and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a device embodying my invention. Fig. 2 is a plan thereof, and Fig. 3 is a sectional detail of a roller employed.

Referring to the drawings, 1 designates the machine-table on which the usual adhesive-applying mechanism is mounted and not necessary to be shown herein. On the forward end of the table are standards 2, on the upper ends of which a rod 3 has its bearings. This rod 3 is a portion of the roller, over which the paper covering passes. The main structure of the roller, however, is of removable sections 4, secured to the rod 3 by means of screws 5. These sections 4 are substantially tubular and when in position on the rod are spaced slightly apart, so that any excess of adhesive material may pass between and into the same. The object in making the roller in sections is so that any desired number may be employed, depending upon the width of paper covering to be placed on a box or box-cover.

Attached to one of the standards 2 and adjustable thereon is an arm 6, to which a rod 7 is adjustably attached. This rod 7 has a number of perforations through which a fastening-bolt 8 may pass, the said bolt also passing through the end of the arm 6. Adjustably mounted on the rod 7 is a pulley 9, from

which a band 10 extends around a pulley 11 on the rod 3, and adjustable on the rod 7 is a pointer or indicating device 12. It will be noted that the band 10 is secured together at its ends by means of a buckle 13.

Adjustably connected to the standards 2 rearward of the roller is a yoke 14, under which the paper is designed to pass. This yoke not only serves to take up the slack of the paper, but it holds the same in more or less contact with the roller, depending upon the adjustment of the yoke.

At the forward end of the machine is the usual paper-cutting device 15.

In operation the box-body is placed on the rotating block 16, and the belt 10 is adjusted to the size of the box, allowing for the overlap of the ends of the covering material. The belt is then placed on the pulleys 9 and 11, properly adjusted for the length of the belt. Then the operator draws the paper forward, causing the end thereof to adhere to the box. Then by rotating the box the paper will be drawn forward, and the adhesive on the paper will have sufficient frictional engagement with the roller to rotate the same, and consequently move the belt 10. When the buckle 13 or any other device that may be placed on the belt is coincident with the pointer 12, it will indicate that the proper length of paper has been drawn over the roller, and then the same is to be cut by the cutting mechanism.

My invention is not confined to applying coverings to box-bodies and the covers thereof, but it may be employed for placing bands of any material on a box.

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

1. In connection with a paper-box-covering machine, a cover-measuring attachment comprising a roller, a pulley carried by the roller, an adjustable rod, a pulley mounted on the rod, and an adjustable belt engaging with the pulleys.

2. In connection with a paper-box-covering machine, standards on the forward end thereof, a roller having bearings in said standards, the said roller consisting of a plurality of detachable sections, a pulley mounted on the roller, an arm extended from one of the standards, a rod adjustable on said arm, a pointer on the rod, a pulley on said rod, and an adjustable belt engaging with the pulleys.

3. In connection with a paper-box-cover-

ing machine, standards mounted on the forward end thereof, a rod having bearings on said standards, roller members detachably connected to said rod and spaced apart, the
5 said members being chambered or hollow at the ends, an arm connected to one of the standards, a rod having adjustable connection with said arm, a pulley on the rod, a pulley on the first-named rod, a band connection

between the two pulleys, and a pointer on said rod.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR BELL.

Witnesses:

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