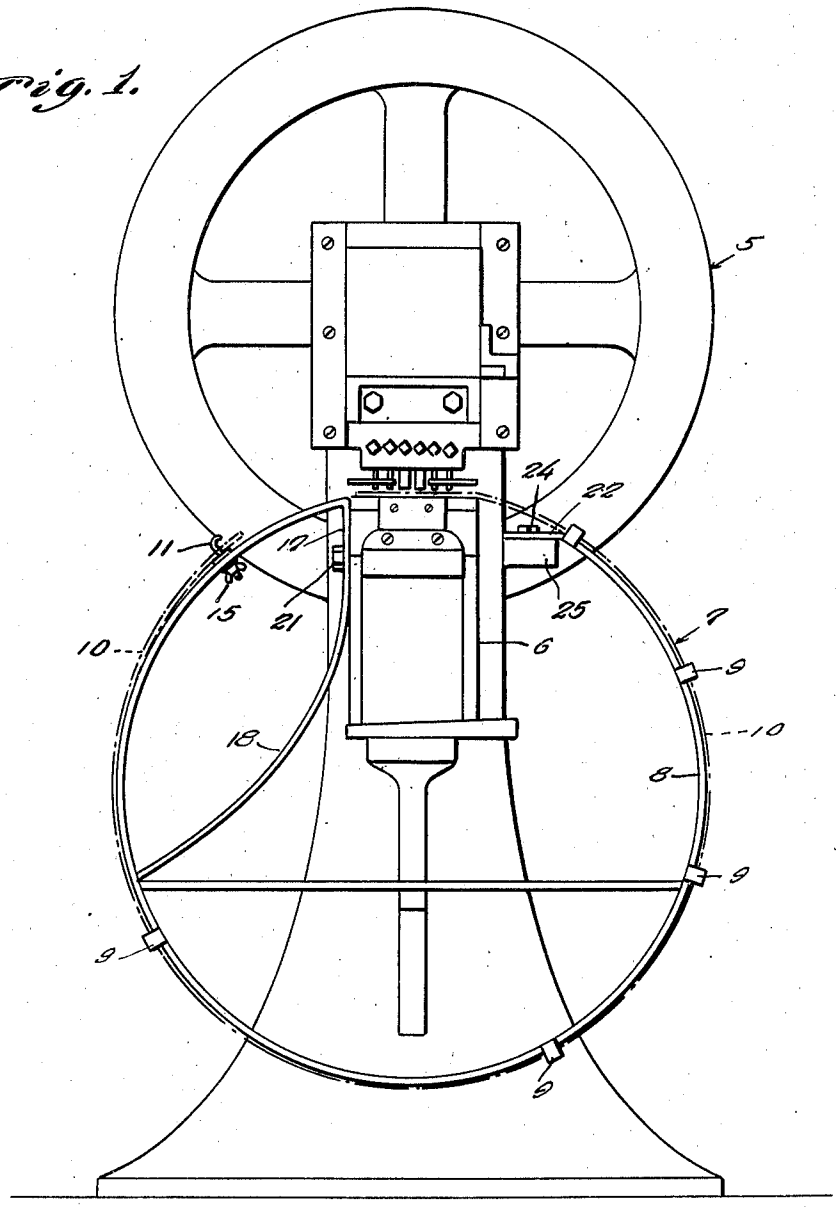
May 21, 1940. F. E. EVANS, SR 2,201,135

BARREL HOOP MEASURING MEANS

Filed Sept. 22, 1939 2 Sheets-Sheet 1

Fig. 1.



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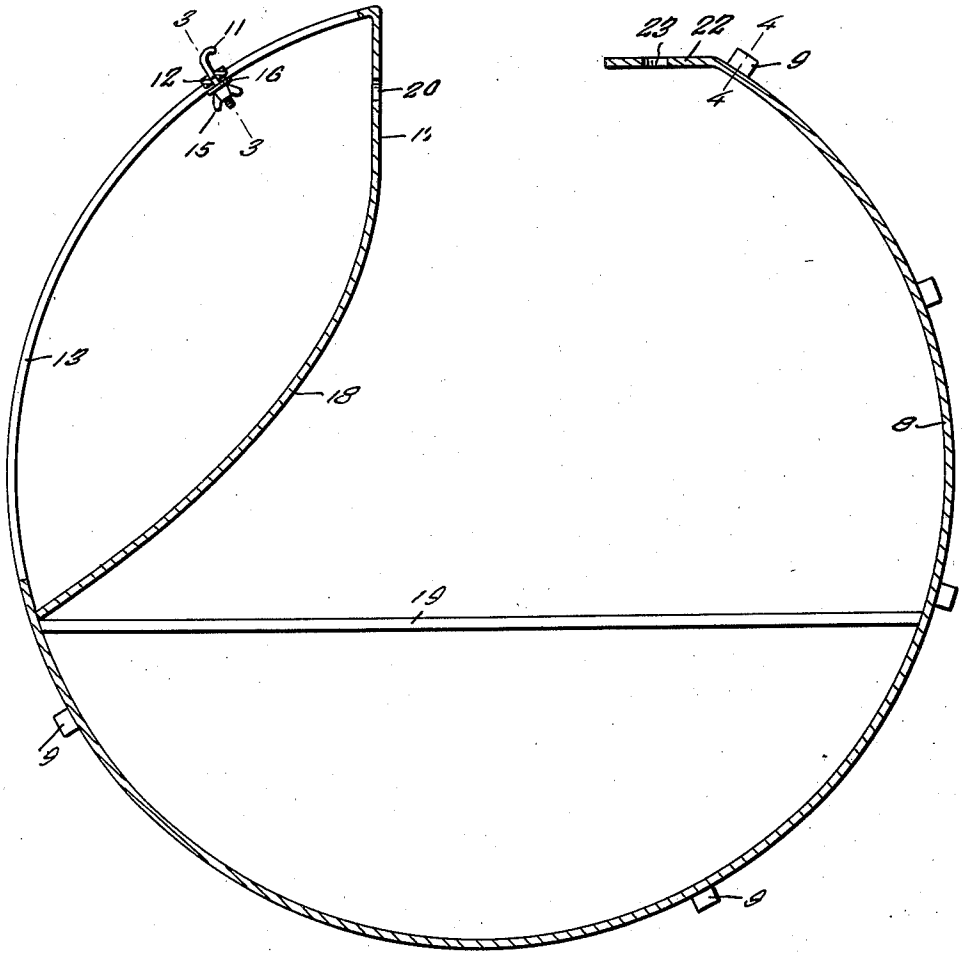
Attorneys

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BARREL HOOP MEASURING MEANS

Filed Sept. 22, 1939 2 Sheets-Sheet 2

Fig. 2.



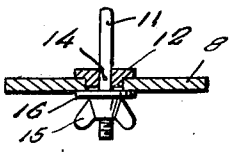


Fig. 3.

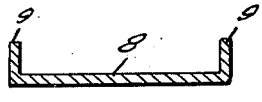


Fig. 4.

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UNITED STATES PATENT OFFICE

2,201,135

BARREL HOOP MEASURING MEANS

Frank E. Evans, Sr., Gretna, La.

Application September 22, 1939, Serial No. 296,162

5 Claims. (Cl. 164—59)

This invention appertains to new and useful improvements in means for measuring barrel hoops and more particularly to hoops that are to be re-used.

The principal object of the present invention is to provide an apparatus for substantially automatically measuring and cutting bands.

Another important object of the invention is to provide an attachment for barrel hoop cutting and punching machines whereby the hoops can be measured almost automatically, thus saving considerable time that is now consumed in measuring the bands before cutting and punching.

Other objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:

Figure 1 represents a front elevational view of a cutting and punching machine showing the attachment in place.

Fig. 2 is a vertical sectional view through the attachment.

Fig. 3 is a section on line 3—3 of Fig. 2.

Fig. 4 is a section on line 4—4 of Fig. 2.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 generally refers to a conventional barrel hoop threading and punching machine such as is now on the market. This machine includes a frame or case structure 6 to which the hoop measuring attachment generally referred to by numeral 7 is secured. This attachment 7 is secured in place in substantially the same plane with the cutters and punchers of the machine 5. The attachment 7 consists of the elongated substantially circular band 8 which at intervals has lugs 9 disposed outwardly from its edge portion to serve as guard means for the barrel hoop 10. One end of the barrel hoop 10 is disposed over the hook 11 and disposed under the band 8 and upwardly where it is disposed under the cutter where it is cut off at the proper length.

The hook 11 is disposed through a slide block 12 which is slidably disposed in the slot 13 of the band 8. The block 12 is partially secured to the hook 11 by a pin or the like 14. The shank of the hook 11 is threaded and extends through the block 12 and slot 13 and is equipped with the wing nut 15 which is operative against the washer 16 which bridges the slot 13 at the inner side of the band 8. Thus the hook can be loosened and slid to any desired position with respect to the slot 13 to determine the length of the hoop to be cut.

One end portion of the band 8 has the downwardly extending leg portion 17 which is curved laterally as at 18 and abuts the band 8 at the same point at which one end of the brace bar 19 abuts the band 8, thus acting as a brace. The upper portion of this leg 17 has the opening 20 therein for receiving a machine screw 21 which serves to attach one end portion of the band to the machine 5.

The other end of the band 8 is provided with a substantially horizontally disposed portion 22 having the opening 23 therein through which the securing element 24 is disposed and driven into the ledge 25 of the machine 5. Thus the band is firmly held in place and braced by the legs 18 and brace bar 19.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed is:

1. A barrel hoop measuring attachment for cutting and punching machines comprising an annulus split and having its end portions attached to the machine and an adjustable barrel hoop engaging member on the band.

2. A barrel hoop measuring attachment for cutting and punching machines comprising an annulus split and having its end portions attached to the machine and an adjustable barrel hoop engaging member on the band, one end portion of the band being disposed inwardly and terminating to abut an intermediate portion of the band to form a brace.

3. A barrel hoop measuring attachment for cutting and punching machines comprising an annulus split and having its end portions attached to the machine and an adjustable barrel hoop engaging member on the band, one end portion of the band being disposed inwardly and intermating to abut an intermediate portion of the band to form a brace, and a cross brace having one end abutting the band at substantially the same point that the leg abuts the band.

4. A barrel hoop measuring attachment for cutting and punching machines comprising an annulus split and having its end portions attached to the machine and an adjustable barrel hoop engaging member on the band, said adjustable member comprising a hook, said band having a longitudinally extending slot therein for receiving the shank portion of the hook and a nut on the shank portion of the hook adapted to be threaded inwardly to bind against the band and secure the hook against self adjusting.

5. A barrel hoop measuring attachment for cutting and punching machines comprising an annulus split and having its end portions attached to the machine and an adjustable barrel hoop engaging member on the band, and guide lugs on the band.

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