No. 724,433. PATENTED APR. 7, 1903.

J. CATUDAL.

ATTACHMENT FOR BAND SAWS.

APPLICATION FILED OCT. 2, 1902.

NO MODEL.

Fig. 1.

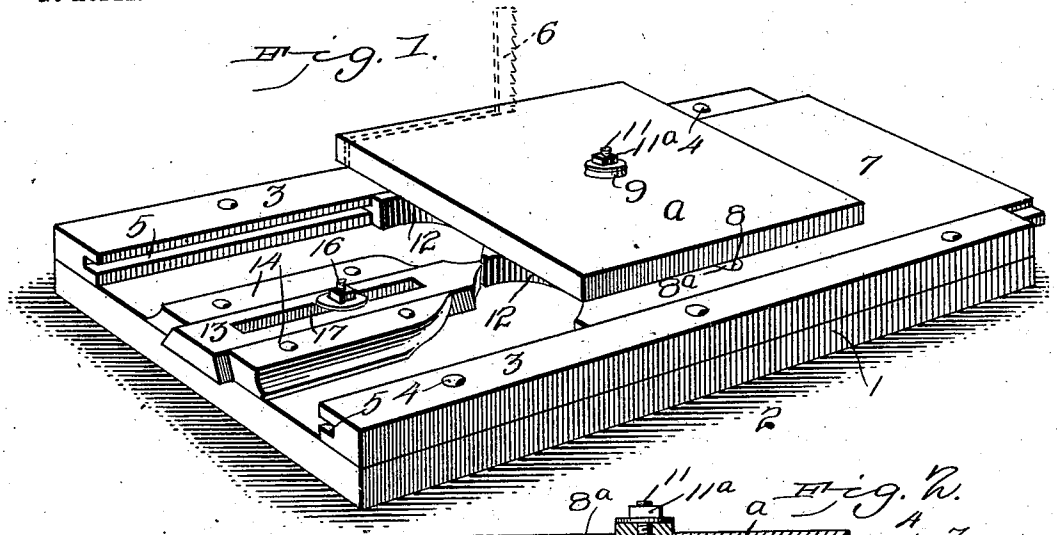


Fig. 2.

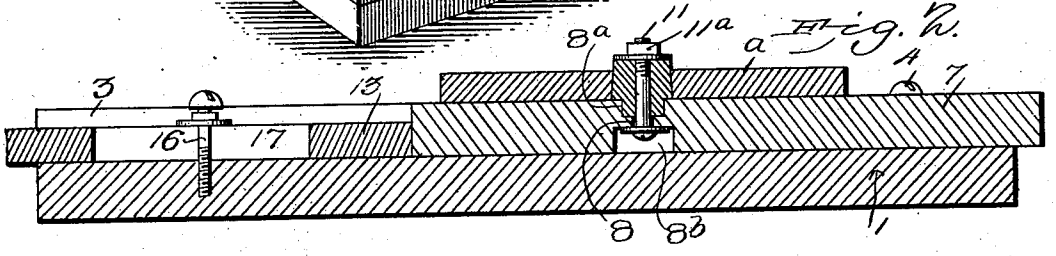
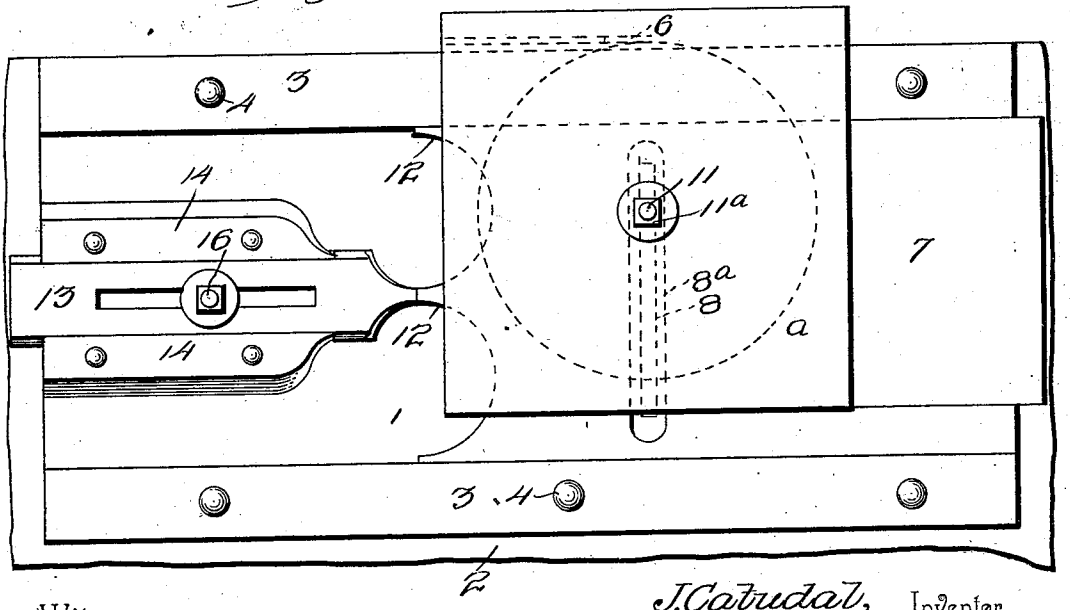


Fig. 3.



Witnesses,
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES CATUDAL, OF DALLAS, TEXAS.

ATTACHMENT FOR BAND-SAWS.

SPECIFICATION forming part of Letters Patent No. 724,433, dated April 7, 1903.

Application filed October 2, 1902. Serial No. 125,699. (No model.)

To all whom it may concern:

Be it known that I, JAMES CATUDAL, a citizen of the United States, residing at Dallas city, in the county of Dallas and State of Texas, have invented a new and useful Attachment for Band-Saws, of which the following is a specification.

The invention relates to an attachment for band-saws for sawing wheels, pulleys, and other circular forms.

The object of the present invention is to provide a simple and inexpensive attachment for band-saws by means of which circular forms, such as wheels or pulleys, may be readily sawed of any desired size without the necessity of scribing or otherwise marking on the wood prior to sawing the same and by means of which any number of objects or oddities may be successively sawed of the same diameter.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of an attachment constructed in accordance with this invention and shown applied in operative position on the table of a band sawing-machine, a portion of the band-saw being indicated in dotted lines. Fig. 2 is a central vertical longitudinal sectional view of the same. Fig. 3 is a plan view.

Like characters of reference designate corresponding parts in all the figures of the drawings.

1 designates a guide designed to be mounted upon the top of a saw-table 2 and adapted to be secured to the same by clamps, screws, or any other suitable fastening devices, which will enable the attachment to be readily removed when desired. The guide is provided at opposite sides with a pair of longitudinally-disposed parallel guide-bars 3, secured to the body or base of the guide by screws 4 or any other suitable means and provided with longitudinal grooves 5, arranged at their inner sides. One of the side edges of the guide is disposed at that side of the saw-table where the effective lead of the band-saw 6 operates, and the said guide-bars may be of any desired length, and the attachment may be constructed of any desired material, as will be readily understood. The guide receives a slide 7, which has its upper face flush with the upper faces of the longitudinal guide-bars and which is of a width to fit and slide longitudinally of the same, and the said slide is provided at its side edges with outwardly-extending longitudinal tongues to fit the grooves 5 of the guide-bars. The slide is provided at a suitable distance from its inner end with a transversely-disposed slot 8 for the reception of an adjustable pivot-post 9, projecting from the upper side of the slide and provided with a shank of reduced diameter to fit in a recess 8^a of the upper face of the slide. The lower face of the slide is also provided with a recess 8^b for the reception of the head of a bolt 11, provided with an upper threaded portion for the reception of a clamping-nut 11^a. A washer is interposed between the head of the bolt and the slide, and the said bolt which passes through a bore or opening of the pivot-post receives a washer, which is interposed between the upper end of the pivot-post and the nut.

The block *a*, which constitutes the work and which is to be sawed into circular form, is first provided with a central opening for the reception of the pivot-post 9, the latter serving as a pivot on which the work carried by the slide may be turned when in engagement with the band-saw. The operator in practice advances the slide with his right hand, and when the said slide engages the adjustable stop 13, hereinafter described, is rotated with the left hand. The pivot-post 9, being adjustable, may be readily set at the required distance from the saw to enable work of any desired diameter to be sawed. The inner end of the slide is provided with clearance-notches 12 to permit the escape of the sawdust.

The adjustable stop or gage 13, which is provided with a tapered inner end, is arranged in a suitable way formed by a pair of cleats or bars 14, which are arranged centrally of the base or body portion of the guide 1 at one end thereof. The bars or cleats 14 are provided with inclined or undercut inner edges to receive the side edges of the slide, which is beveled at opposite sides to fit the way. The slide is provided with a central project-

ng portion at its inner end to engage the inner end of the adjustable stop, and the latter is secured at any desired adjustment by means of a fastening device 16, mounted on the base or body portion of the guide and arranged in a longitudinal slot 17 of the stop. In practice suitable graduations will be provided at the adjustable slot or gage for enabling the same to be accurately set and the slide may also be provided at the transverse slot with graduations to facilitate the adjustment of the pivot-post.

It will be seen that the attachment is exceedingly simple and inexpensive in construction, that it is adapted to be readily applied to and removed from the table of a band-saw, and that it is capable of ready adjustment to arrange it for sawing a pulley, wheel, or other object into a circular form of the desired diameter.

It will be understood that various changes in the form, proportion, size, and the minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What is claimed is—

1. A saw attachment for cutting circular forms, comprising a slide having a pivot for the work, a guide receiving the slide and arranged in a plane parallel with the saw, and an adjustable stop member independent of the slide and adapted to limit the movement thereof in one direction.

2. A saw attachment for cutting circular forms, comprising a guide arranged in a plane parallel with the saw, a slide arranged in the guide, a pivoting device carried by the slide and forming a work-support, said pivoting device being movable toward and from the saw in a direction at right angles to the movement of the slide.

3. A saw attachment for cutting circular forms comprising a slide to carry the work and having means whereby the work may be pivoted on it, and means for guiding the slide parallel with the saw, whereby the pivot may be disposed abreast of the saw and the work brought in contact therewith and turned to be sawed in circular form, substantially as described.

4. A saw attachment for cutting circular forms, comprising a guide arranged in a plane parallel with the saw, a slide disposed in the guide and having a slot arranged at a right angle to the line of movement of the slide, a pivot-post adjustable in said slot, means for locking said post in adjusted position, and means for limiting the movement of the slide in one direction, substantially as specified.

5. A saw attachment for cutting circular forms comprising a guide designed to be detachably mounted on a saw-table and provided at opposite sides with longitudinal guide-bars, and having short guides arranged at one end of it at opposite sides of the center thereof, a slide mounted in the guide and engaging the guide-bars and provided with a pivot, and an adjustable stop or gage mounted in the short guides and arranged to be engaged by the slide, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES CATUDAL.

Witnesses:
G. L. NEAL,
D. L. LINCECUM.