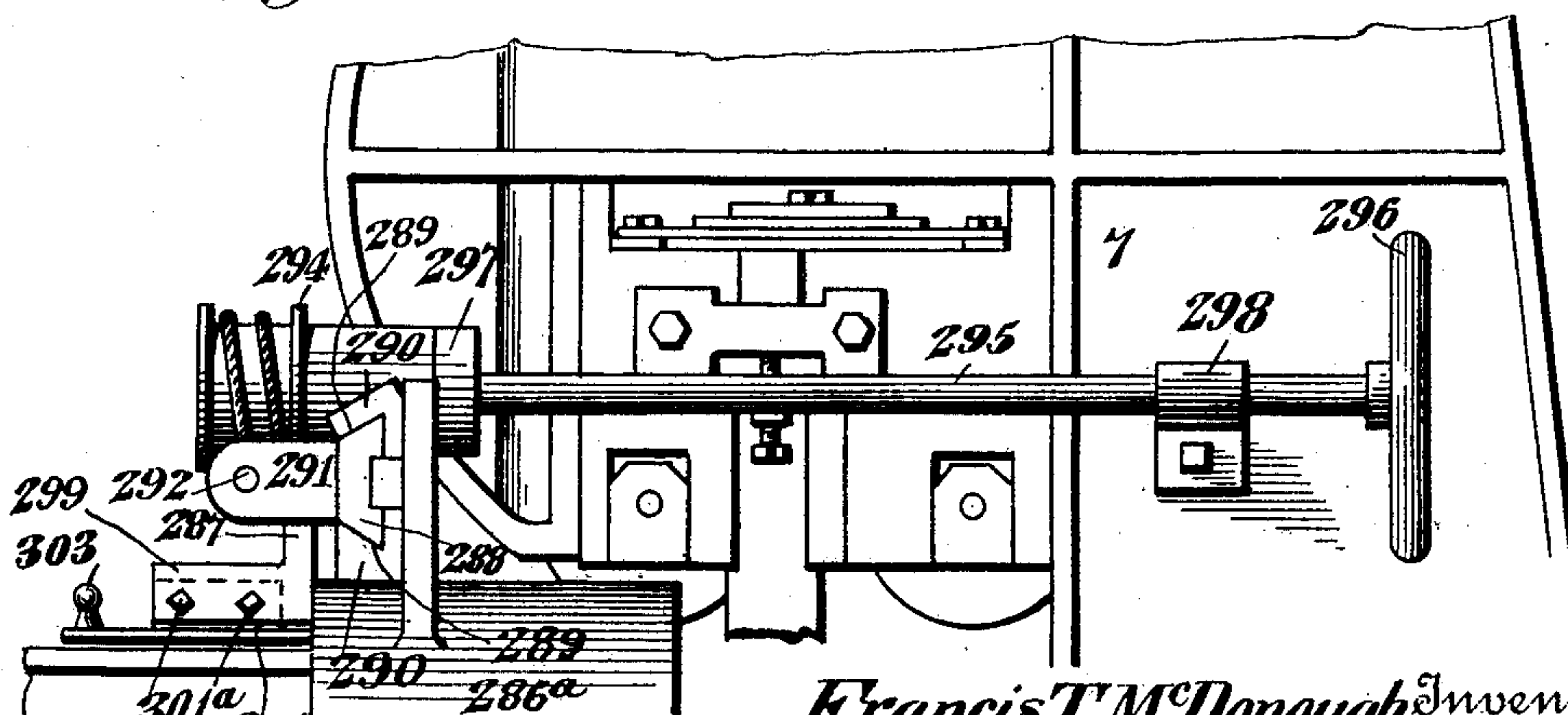
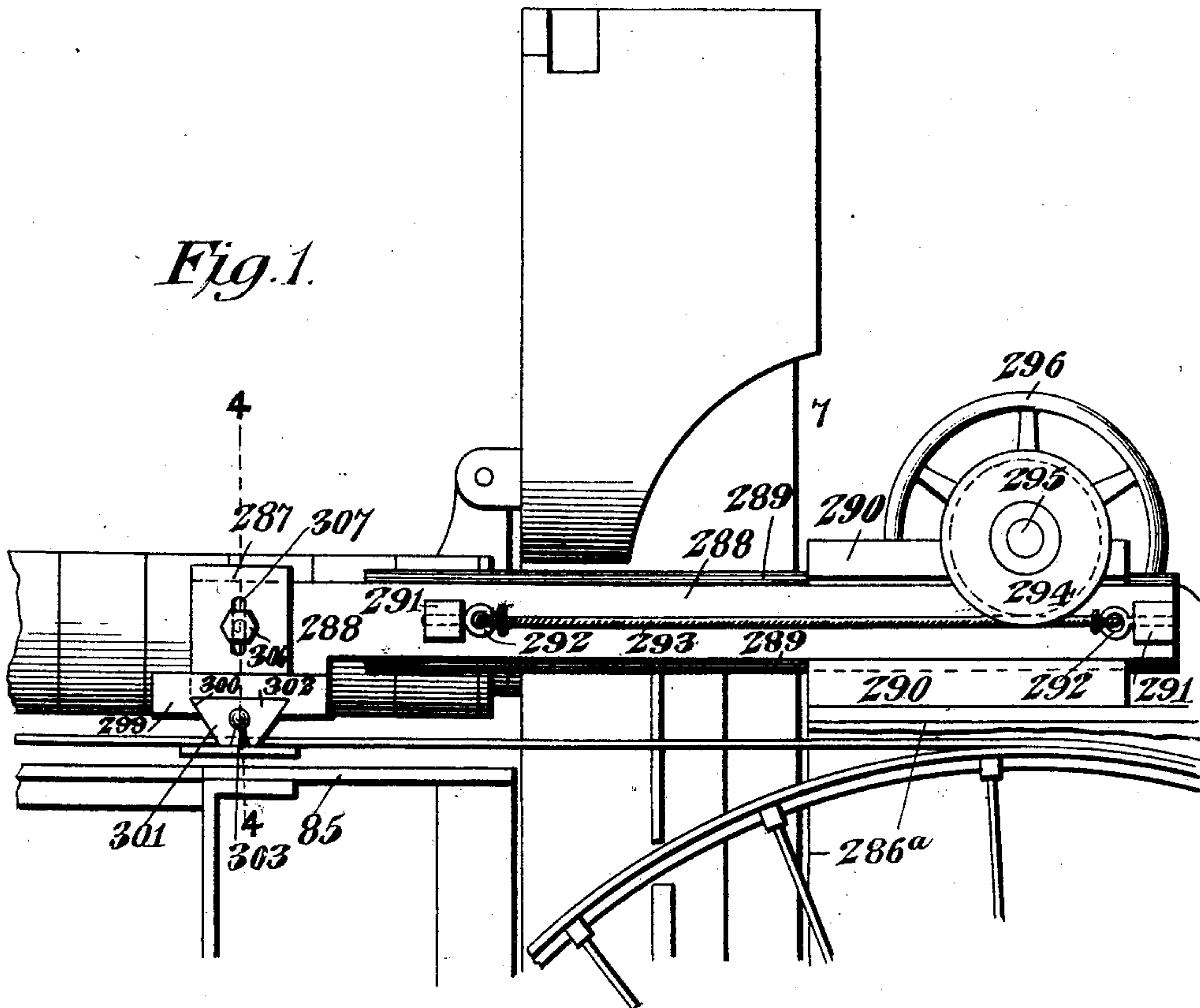


F. T. McDONOUGH.  
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APPLICATION FILED FEB. 21, 1908.

924,622.

Patented June 8, 1909.  
3 SHEETS—SHEET 1.



Witnesses  
Jas. E. McLaughlin  
J. J. Riley

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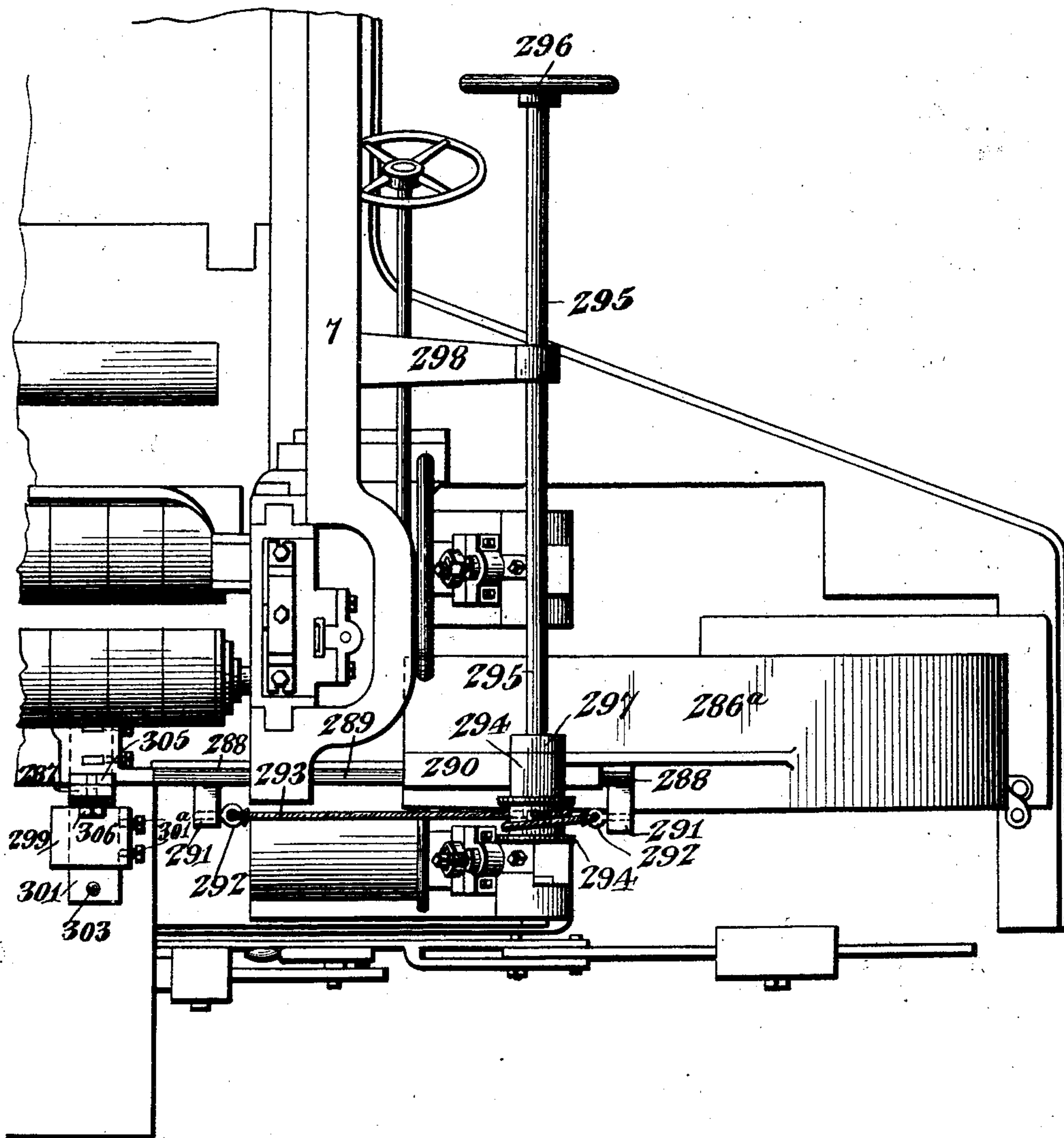
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3 SHEETS—SHEET 2.

Fig. 3.



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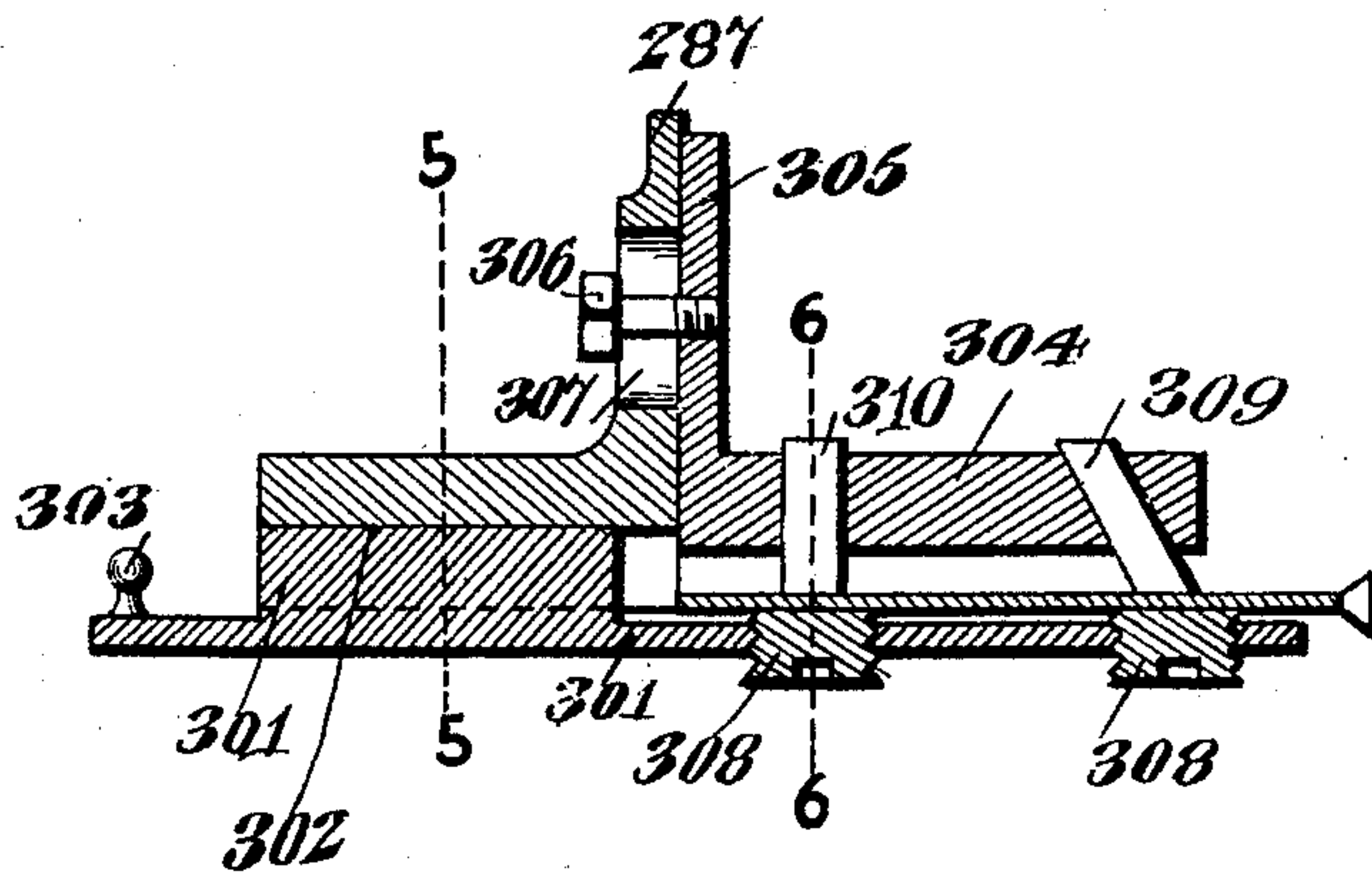
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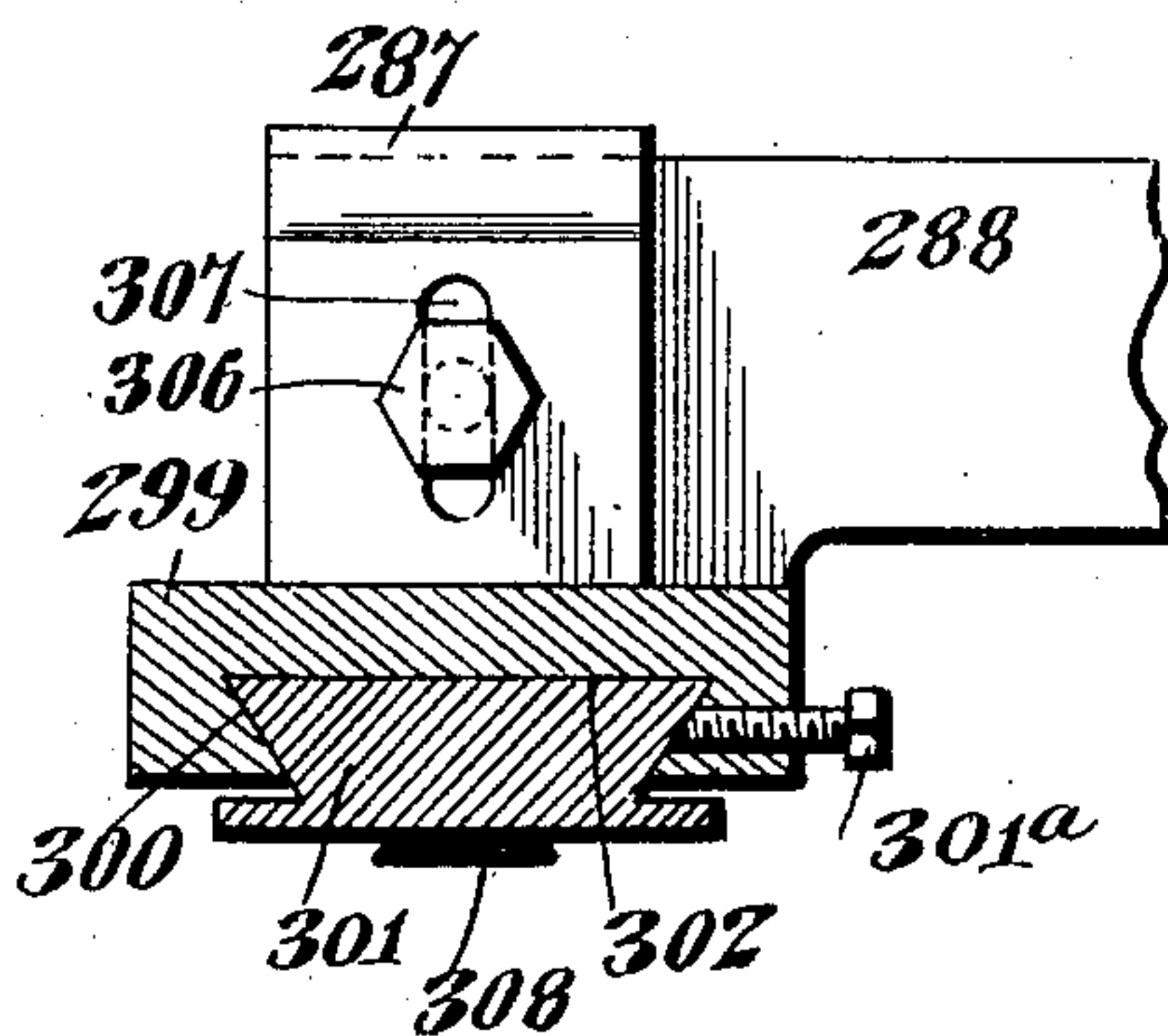
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3 SHEETS—SHEET 3.

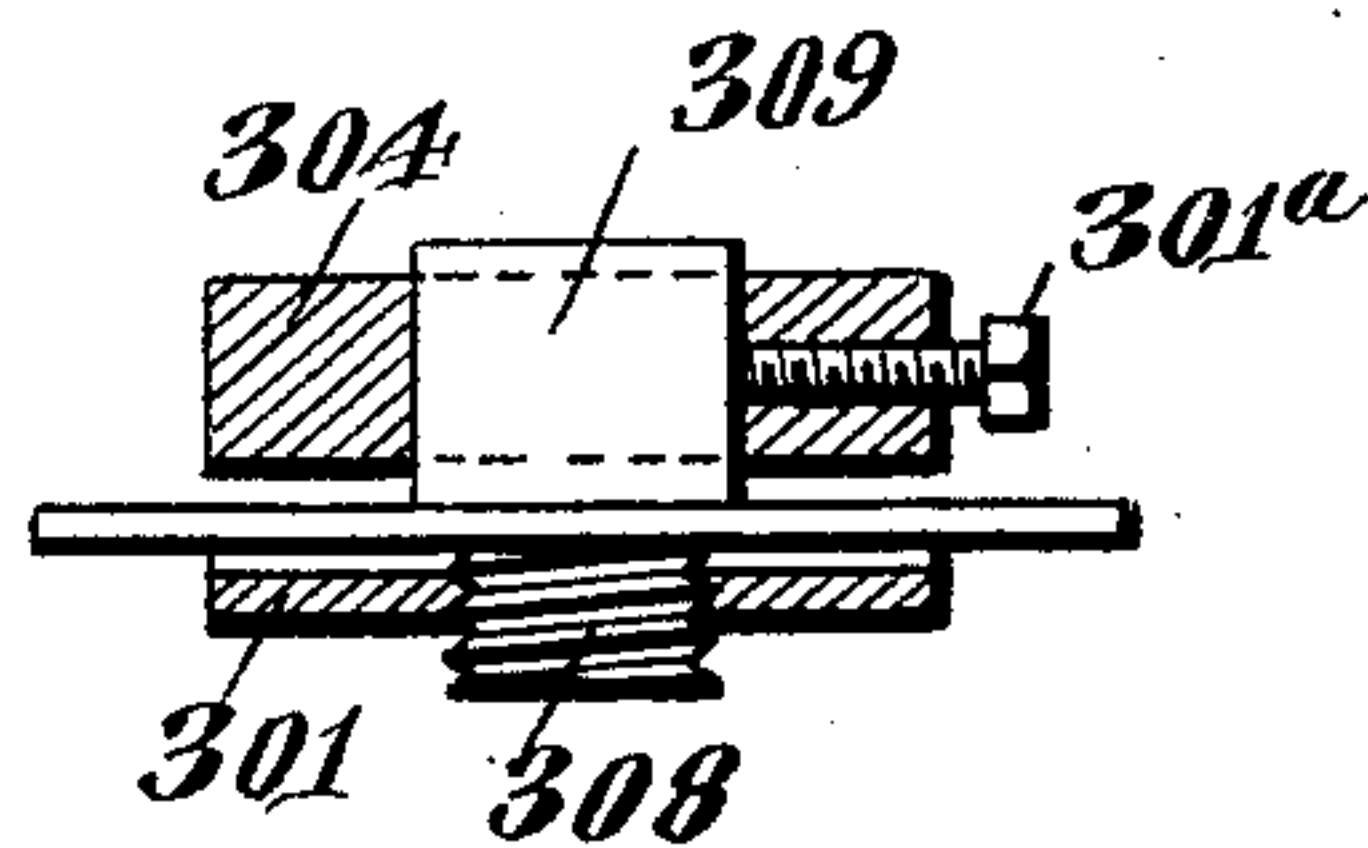
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

FRANCIS THOMAS McDONOUGH, OF EAU CLAIRE, WISCONSIN.

## ADJUSTABLE BAND-SAW GUIDE.

No. 924,622.

Specification of Letters Patent.

Patented June 8, 1909.

Original application filed March 20, 1907, Serial No. 363,526. Divided and this application filed February 21, 1908.  
Serial No. 417,111.

*To all whom it may concern:*

Be it known that I, FRANCIS THOMAS McDONOUGH, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented a new and useful Adjustable Band - Saw Guide, of which the following is a specification.

The present application is a division of the application filed by me Mar. 20, 1907, Serial No. 363,526, for an improvement in horizontal band resawing machines, and relates to a saw guide.

The object of the present invention is to improve the construction of saw guides, and to provide an adjustable guide for band saws, capable of being readily operated from the front of the machine to move the said guide either inwardly or outwardly.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims here-to appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a rear elevation of a portion of a horizontal band resawing machine, provided with an adjustable saw guide, constructed in accordance with this invention. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view. Fig. 4 is an enlarged detail sectional view, taken longitudinally of the saw guide on the line 4—4 of Fig. 1. Fig. 5 is a similar view, taken substantially on the line 5—5 of Fig. 4. Fig. 6 is a similar view, taken substantially on the line 6—6 of Fig. 4.

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

The band wheel guard 286<sup>a</sup> constitutes a support for an adjustable band saw guide 287, which is operable from the front of the machine to arrange it in the desired position. The adjustable band saw guide is mounted on the inner end of the slide 288, disposed horizontally and arranged edgewise vertically and having beveled upper and lower

edges 289 to fit in a dove-tail way 290 of the band saw guard 286<sup>a</sup>. The band saw guard 286<sup>a</sup> is provided at the top with an extension having upper and lower longitudinal flanges, which have oppositely inclined inner faces to provide the dove-tail way 290. The slide is also provided adjacent to its end portions with inner and outer projecting lugs 291 on which are mounted eye bolts 292 for the attachment of a wire rope 293, chain or other suitable flexible connection, which is wound around a drum or spool 294. The drum or spool 294 is mounted on the rear end of a shaft 295, which extends to the front portion of the machine and which is provided at its front end with a hand wheel 296 for enabling it to be conveniently turned to move the adjustable slide inwardly and outwardly. The flexible connection 293 extends in opposite directions from the spool or drum, and when the shaft is rotated, one of the end portions of the rope will be wound up on the said spool or drum and the other will be unwound therefrom. The portion being wound on the spool or drum moves its attached end toward the same and actuates the slide 288. The adjustable saw guide is adapted to be moved across the saw table 85, and is employed except when cutting very thin stock, when it is moved beyond the edge of the table. The shaft 295 is mounted at its rear end in a suitable bearing 297 at the top of the dove-tail way, and it is supported near its upper end by an arm 298, extending laterally from the outer face of the column 7 and terminating in a bearing.

The slide 288 is provided at its inner end with a foot 299, having a dove-tail way 300 at its lower face to receive an adjustable lower member 301 of the adjustable guide 287. The lower member, which is secured in its adjustment by set screws 301<sup>a</sup>, is provided with a dove-tail enlargement 302, slidable in the dove-tail way 300 and engaged by the set screws 301<sup>a</sup>, and the said lower member has a knob 303 to enable it to be readily moved backwardly or forwardly to arrange it properly with relation to the band saw, and also to enable the said lower member 301 to be readily detached, when it is desired to remove the band saw from or place the same on the band saw wheels.

The band saw guide 287 is also provided



with an adjustable upper member 304. The member 304, which is approximately L-shaped, has a vertically disposed portion 305 fitted against the upper end of the horizontal slide 288, and extending upwardly therefrom and adjustably secured to the same by means of a screw 306, mounted in a vertical slot 307 of the slide 288 and engaging a threaded perforation of the vertical portion of the upper member 304. The horizontally disposed portion of the upper member 304 extends forwardly from the slide, while the foot 299 projects rearwardly therefrom. The lower member 301 is provided with adjustable saw-supporting screws 308, and the upper member carries adjustable saw-engaging plates 309 and 310 for holding the band saw against downward or upward movement.

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

1. In a sawing machine, the combination with a horizontal band saw, of a band saw guide including a support having a vertical portion located at one side of the band saw and arranged above the plane of the same, an upper guide member also located above the band saw and provided with a vertical portion fitted against and adjustably secured to the vertical portion of the support and movable upwardly and downwardly toward and from the band saw, and a lower guide member connected with the support and extending beneath the saw.

2. In a sawing machine, the combination with a horizontal band saw, of a band saw guide including a support having a vertical portion provided with a vertical slot and located above the plane of the band saw at one side thereof, an upper approximately L-shaped guiding member located above the band saw and having a vertical portion fitted against the vertical portion of the support, a set screw connected with the vertical portion of the upper member and operating in the slot of the vertical portion of the support to secure the upper guiding member to the same and to permit the said upper member to be moved upwardly and downwardly toward and from the band saw, and a lower guiding member extending beneath the band saw and connected with the support.

3. In a sawing machine, the combination with a horizontal band saw, of a saw guide including a support having a foot, an upper guiding member located above the band saw and mounted on the support, and a lower guiding member extending beneath the horizontal band saw and movable across the same and adjustably secured to the foot of the support.

4. In a sawing machine, the combination with a horizontal band saw, of a saw guide including a support having a horizontal foot provided in its lower face with a way, an up-

per guiding member located above the band saw and mounted on the support, and a lower guiding member extending beneath the band saw and movable transversely of the same in the way at the bottom of the foot of the support.

5. In a sawing machine, the combination with a horizontal band saw, of a saw guide including a support located at one side of the saw and having a vertical portion and provided with a horizontal foot, an upper guiding member located above the saw and adjustable upwardly and downwardly on the vertical portion of the support, and a lower guiding member extending beneath the band saw and movable across the same and adjustably connected with the foot of the support at the bottom thereof.

6. In a sawing machine, the combination with a horizontal band saw, of a saw guide including a support located at one side of the band saw and provided with a vertical portion having a vertical slot, said support being also provided with a horizontal foot having a way in its lower face, a substantially L-shaped upper guiding member located above the same and fitted against the vertical portion of the support and movable upwardly and downwardly toward and from the saw, a set screw connected with the upper guiding member and operating in the slot of the support to secure the upper guiding member in its adjustment, and a lower horizontal guiding member extending beneath the band saw and movable transversely of the same and provided beyond the saw with an enlargement slidable in the said way.

7. In a sawing machine, the combination with a horizontal band saw and wheels therefor, and a wheel guard provided at the top with an extension rising from the wheel guard and extending longitudinally thereof and having a horizontal way, a slide mounted in the way and extending from the inner end of the wheel guard in a direction in line with the saw, and a saw guide carried by the slide and located beyond the guard.

8. In a sawing machine, the combination with a horizontal band saw, and a horizontal guideway located above and parallel with the band saw, of a saw guide having a horizontal slide movable in the guideway, an operating shaft extending transversely of the guideway and provided with a spool located at the front of the guideway, and a flexible connection wound around the spool in opposite directions and connected with the ends of the slide, whereby when the shaft is rotated the slide will be moved along the guideway.

9. In a sawing machine, the combination with a horizontal band saw and the vertically disposed wheels, of a wheel guard formed with a horizontal guideway, a horizontal



slide operating in the guideway and projecting beyond the same and carrying a saw guide at one end, and a transversely disposed operating shaft connected to the slide for  
5 moving the guide longitudinally along the saw.

In testimony, that I claim the foregoing

as my own, I have hereto affixed my signature in the presence of two witnesses.

FRANCIS THOMAS McDONOUGH.

Witnesses:

B. HOGAN,  
E. A. ARNOLD.