

No. 751,733.

PATENTED FEB. 9, 1904.

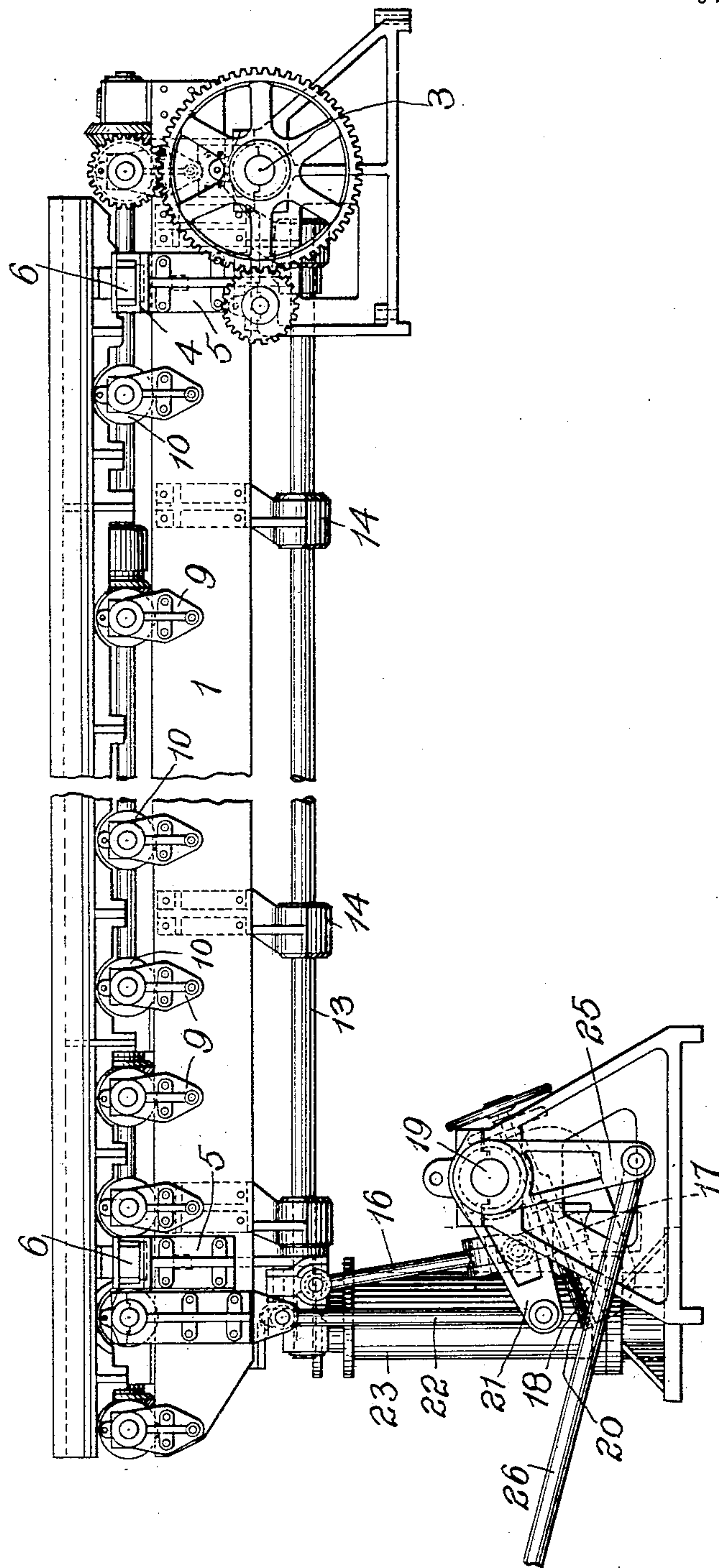
S. V. HUBER.  
FEED TABLE FOR ROLLING MILLS.

APPLICATION FILED SEPT. 2, 1903.

NO MODEL.

3 SHEETS—SHEET 1.

FIG. 1.



WITNESSES:

*Robert Bradley*  
*Fred Kirchner*

*Sigmund V. Huber* INVENTOR  
*by Christy and Christy* Att'ys

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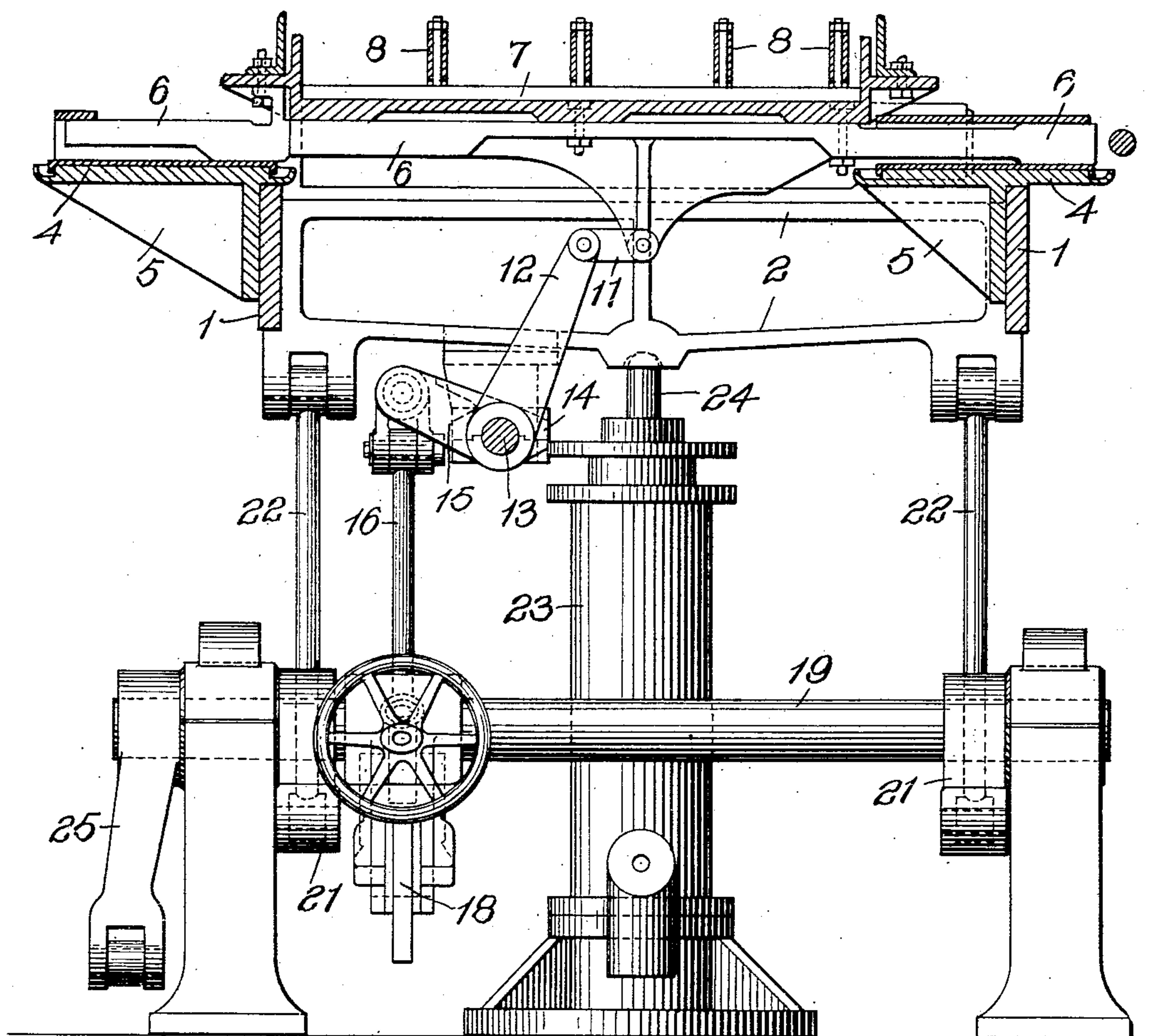
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NO MODEL.

3 SHEETS—SHEET 2.

FIG. 2.



WITNESSES:

*Robert Bradley*  
*Fred Kirchner*

INVENTOR

*Sigmund V. Huber*  
*by Christy and Christy*  
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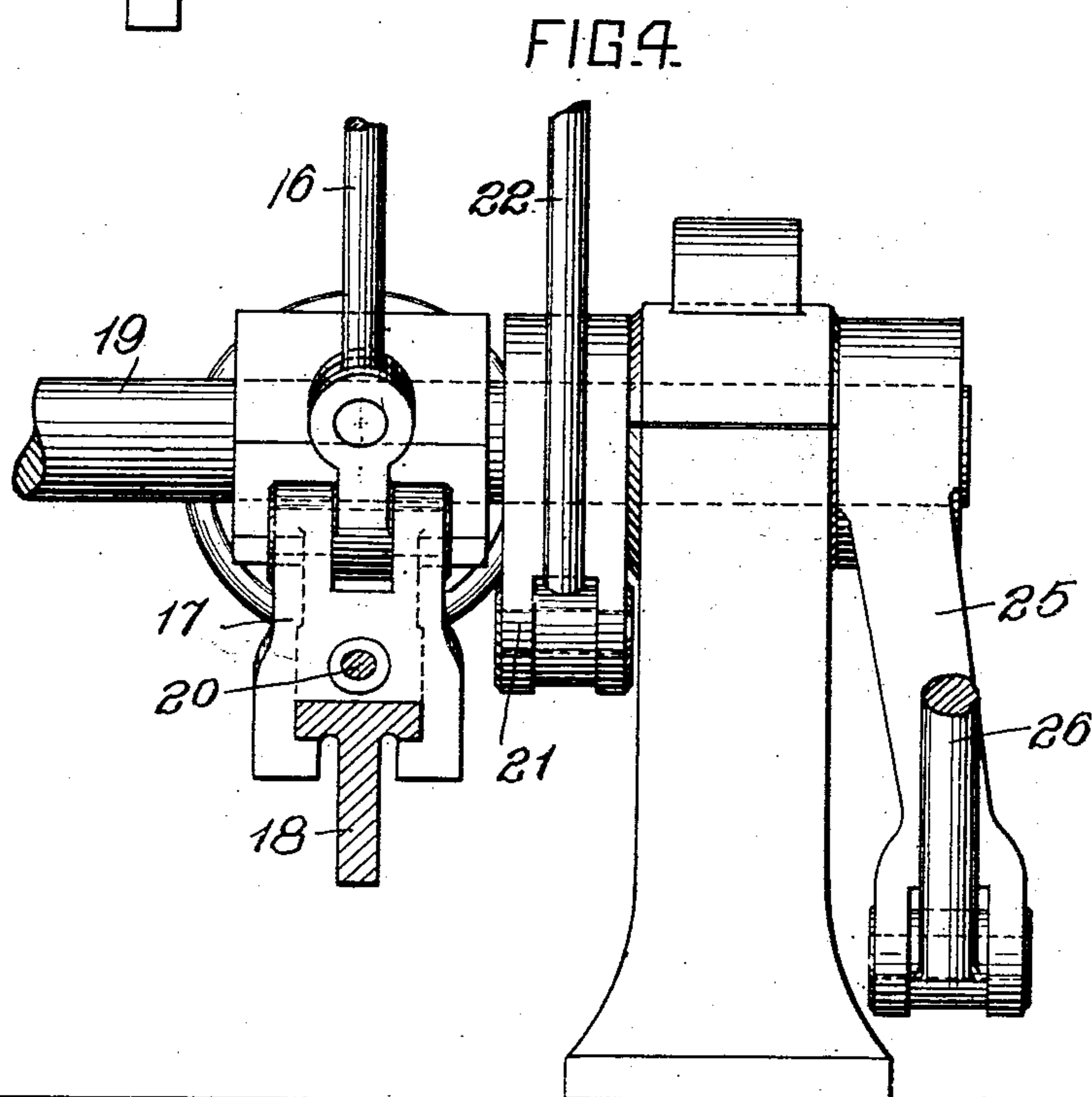
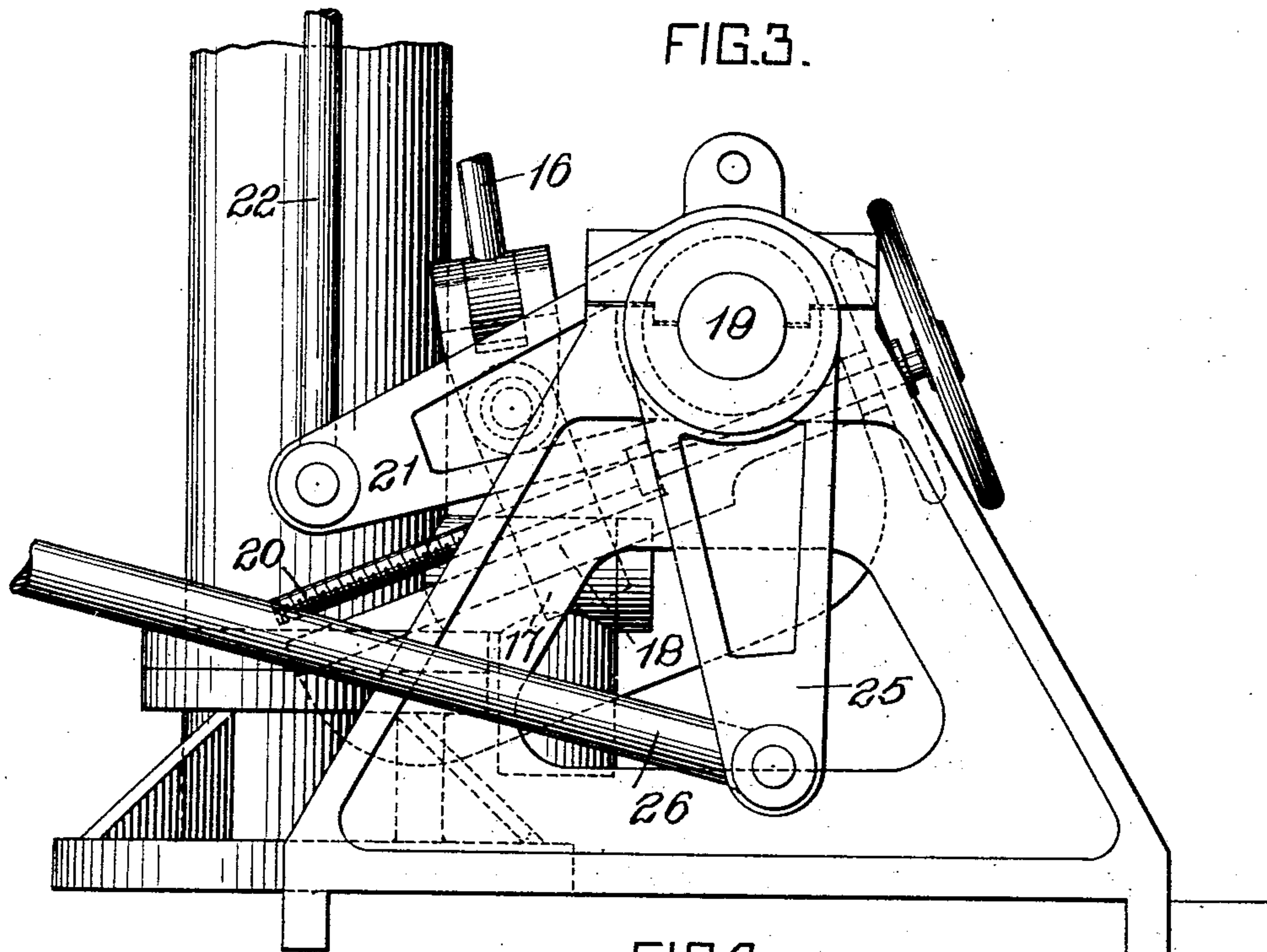
S. V. HUBER.

## FEED TABLE FOR ROLLING MILLS.

APPLICATION FILED SEPT. 2, 1903.

NO MODEL.

3 SHEETS--SHEET 3.



**WITNESSES:**

Herbert Bradley.  
Fred Kirchner.

**INVENTOR**

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Sigmund V. Huber  
By Christy and Christy  
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# UNITED STATES PATENT OFFICE.

SIGMUND V. HUBER, OF PITTSBURG, PENNSYLVANIA.

## FEED-TABLE FOR ROLLING-MILLS.

SPECIFICATION forming part of Letters Patent No. 751,733, dated February 9, 1904.

Application filed September 2, 1903. Serial No. 171,578. (No model.)

*To all whom it may concern:*

Be it known that I, SIGMUND V. HUBER, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Feed-Tables for Rolling-Mills, of which improvements the following is a specification.

The invention described herein relates to certain improvements in feed-tables for rolling-mills. Provision has heretofore been made in feed-tables for effecting a lateral shifting of the article on the table simultaneously with the vertical movement of the table; but each lateral movement has always been the same regardless of the amount of vertical movement given to the table.

The object of the invention herein is to provide for a variation of the lateral movement of the article in accordance to the requirements of rolling-mill practice.

The invention is hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a feed-table having my improvements applied thereto. Fig. 2 is a sectional elevation on the plane indicated by the line II II, Fig. 1; and Figs. 3 and 4 are detailed views, on an enlarged scale, of the mechanism for operating the table and shifting the article.

In the practice of my invention the table is formed of side plates 1, connected transversely by distance pieces or beams 2, which are bolted or riveted to the side plates. At their rear ends the side plates are provided for suitable bearings surrounding the shaft 3, which forms the fulcrum for the vertical movement of the table. At suitable points along the length of the table are secured guide-plates 4, clearly shown in Fig. 2, and consisting of bearing portions arranged horizontally and flanges or brackets 5, whereby they are bolted or secured to the side plates 1. Upon the bearing plates or guides are arranged the ends of sliding bars 6, to which are secured the aprons 7, usually found in feed-tables, said aprons being provided with suitable means whereby the article may be guided along the table, such guiding means being preferably made in the

form of longitudinal rails 8, adjustably connected to the sliding bars 6. Bearings 9 for the feed-rollers 10 are secured at suitable intervals to the side plates 1, as clearly shown in Fig. 1. Each of the sliding bars 6 is connected by a link 11 to an arm 12, which is secured to a longitudinal shaft 13, supported in suitable bearings 14, secured to the bed of the table. An arm 15 is also secured to the shaft 13 and has its outer end connected by a swivel or universal joint to a vertical rod 16, which has its lower end similarly connected to a sliding block 17. As clearly shown in Figs. 3 and 4, this block 17 is adjustably mounted upon an arm 18 on the shaft 19. The back-and-forth movement of the block 17 on the arm 18 is effected by any suitable means—such, for example, as the screw 20, which will also hold the block in any adjusted position. The shaft 19 has keyed thereon arms 21, which are connected by rods 22 to the side frames of the table, preferably through the medium of the transverse braces 2, as clearly shown in Fig. 2. By this construction a vertical movement of the table will impart a rotation to the shaft 13 and a transverse movement of the slides and the parts carried thereby. The amount or extent of this transverse movement of the slides will of course depend upon the position of the block 17 with relation to the axis of the shaft 19—that is, the greater the distance the block 17 is from the shaft the greater transverse movement will be imparted to the slides, and vice versa.

While any suitable means known in the art may be employed for raising and lowering the free or inner end of the table, it is preferred to employ a fluid-pressure cylinder 23. As shown in Figs. 1 and 2, the piston-rod 24 of this cylinder has a suitable bearing upon one of the connecting or transverse braces 2, as clearly shown in Fig. 2.

It is generally customary to provide two tables, one on each side of the mill, which shall have similar and simultaneous movements, and to effect such movements a suitable connection is arranged between the tables, so that both can be operated by the same fluid-pressure cylinder. Such a connection is shown

in part in Figs. 1 and 2 and consists of an arm 25, secured to the shaft 19 and connected by a rod 26 to a similar arm for operating the table on the opposite side of the rolls.

5 I claim herein as my invention—

1. A feed-table for rolling-mills having in combination means for guiding or directing an article along the table, means for raising and lowering the table, means operative by  
10 the table for shifting the guides laterally and means for varying the extent of such lateral movement, substantially as set forth.

2. A feed-table for rolling-mills having in combination means for guiding or directing  
15 an article along the table, means for raising and lowering the table and an adjustable connection between the table and guides whereby the guides may be shifted laterally by the table

in its vertical movement, substantially as set forth. 20

3. A feed-table for rolling-mills having in combination transversely - arranged slides, guide-rails carried by said slides, a shaft having arms connected to the slides, a second shaft having an arm, a block adjustably mounted on said arm and connected to an arm on  
25 the first shaft and connections from the second shaft to the table whereby said shaft may be rotated by the vertical movement of the table, substantially as set forth. 30

In testimony whereof I have hereunto set my hand.

SIGMUND V. HUBER.

Witnesses:

F. E. GAITHER,  
FRED KIRCHNER.