

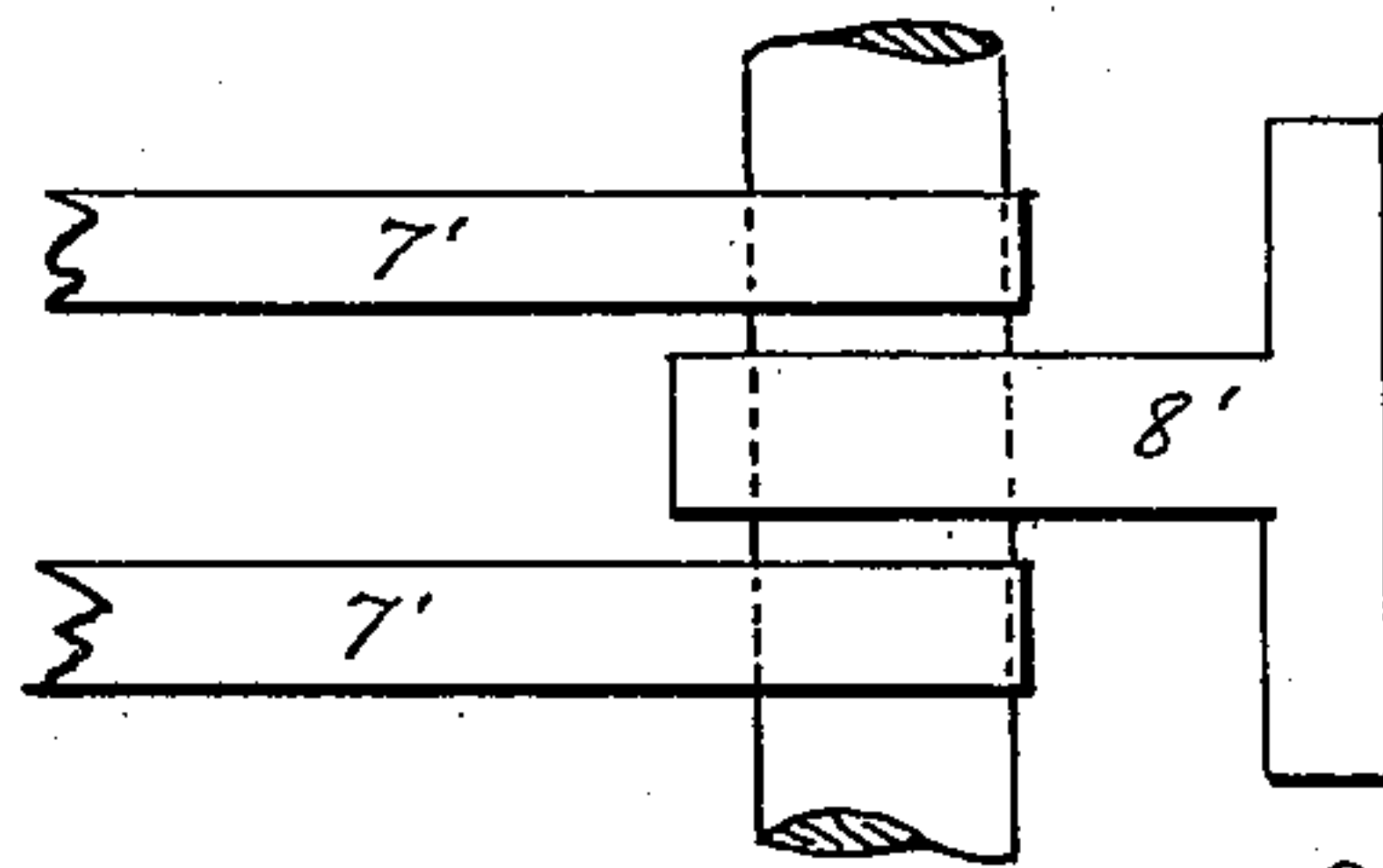
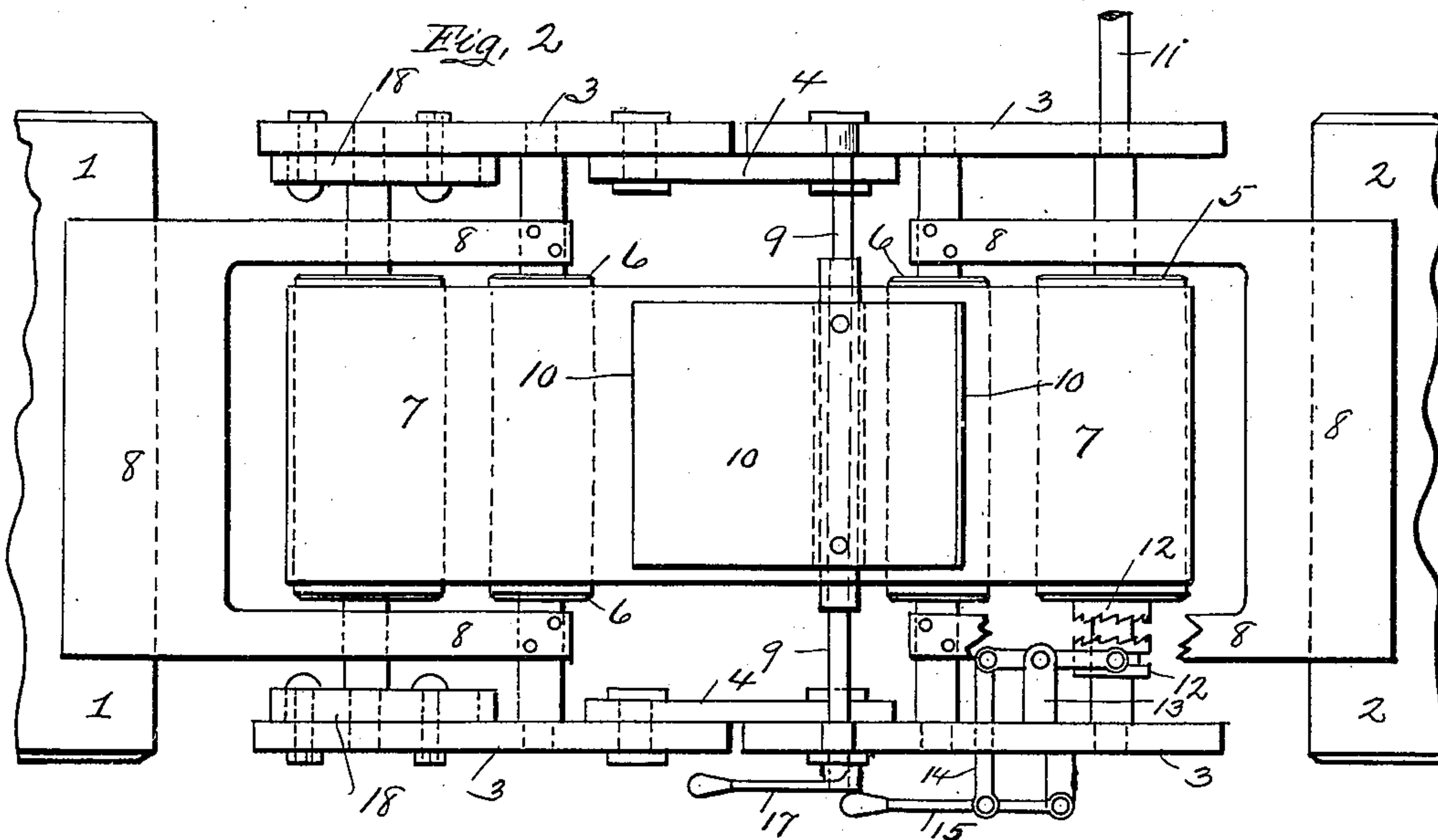
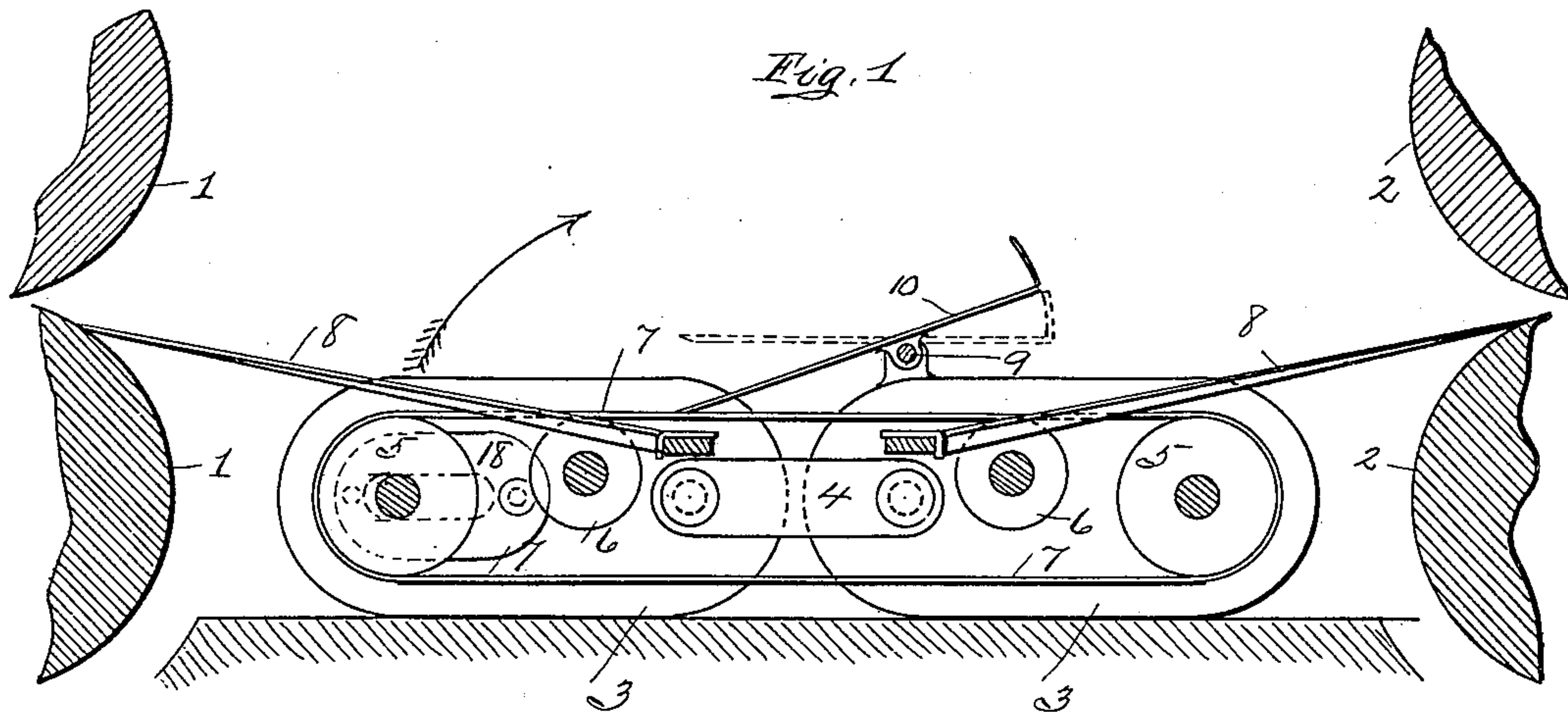
No. 667,190.

Patented Feb. 5, 1901.

W. CONSTANCE.  
TABLE FOR TIN PLATE MILLS.

(Application filed June 9, 1900.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLAM CONSTANCE, OF NEW KENSINGTON, PENNSYLVANIA.

## TABLE FOR TIN-PLATE MILLS.

SPECIFICATION forming part of Letters Patent No. 667,190, dated February 5, 1901.

Application filed June 9, 1900. Serial No. 19,662. (No model.)

*To all whom it may concern:*

Be it known that I, WILLAM CONSTANCE, a citizen of the United States of America, residing at New Kensington, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Tables for Tin-Plate Mills; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to an improved table for tin-plate mills; and it consists in certain details of construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a side sectional elevation of my improved table for tin-plate mills, which is constructed and arranged in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a modified form of one of the guides used in connection with a double belt.

To put my invention into practice with a tin-plate mill consisting of two sets of rolls 1 and 2, the one set arranged opposite and in line with the other in a manner well known in the art, I arrange intermediate of the rolls 1 and 2 a frame 3, formed in two sections and hinged together by straps 4 in a manner that the one section may be folded over the other. Mounted at either end on the frame 3 are rolls 5, over which a broad belt 7 is passed, and the said belt is tightened by adjustable pieces 18, in which one of the rolls 5 is journaled. These rolls 5 are driven by a power-shaft 11 and the belt supported by friction-rollers 6, journaled in the frame 3 and arranged between the rolls 5. Connected to the power-shaft 11 and to its roll 5 is a clutch 12, operated by levers 14 and 15, by means of which the belt may be stopped or started at will. Attached at each end of the frame 3 are guides 8, leading to the rolls 1 and 2, which will guide the plates from the rolls 1 to and on the belt 7. Arranged on a shaft 9, mounted in suitable bearings on the frame 3, is a flat plate, the forward end of which may be brought in close contact with the belt 7 and the rear portion bent upwardly at an angle to form a stop for the plate from the rolls 1. This shaft 9 is provided with an operating or hand lever 17, which when depressed will elevate the plate 10 to the posi-

tion shown in dotted lines at Fig. 1 of the drawings.

In operation, when cold-rolling tin-plate or sheets of metal, the same passing through the rolls 1, down the guide 8, and onto the belt 7, which when in motion will carry the said plate or sheet to the second set of rolls 2, many of such plates will show slight defects after the first pass and must be removed before reaching the second set of rolls 2 to save the time and labor of a second annealing. By means of the device or pivoted plate 10 a boy stationed to operate the hand-lever 17 can pick up such defective plates by simply elevating the said lever 17 to bring the forward edge of the catcher 10 in close contact with the belt 7, and the movement of the said belt will drive the plate upon the catcher and be removed by the operator.

The object of forming the frame 3 in two sections and hinging the same together is that when it is necessary to change the rolls 1 or 2 the frame may be folded to give room to the workmen.

At Fig. 3 of the drawings I have shown a modified form of the guide 8', leading from the rolls 1 2 to the belt 7', which in this case is double.

Various slight modifications and changes may be made in the details of construction without departing from the spirit of the invention.

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

The herein-described table for tin-plate mills, consisting of the frame 3 formed in two sections, and the one section hinged to the other, the rolls 5 journaled at each end of the said frame, the belt 7 operated by the said rolls, the friction-rollers 6 for supporting the belt, the shaft 9 mounted on the frame 3 and operated by a hand-lever 17, the plate 10 attached to the said shaft 9, and suitable guides 8 leading from the rolls to the belt, substantially as described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

WILLAM CONSTANCE.

Witnesses:

JOHN GROETZINGER,  
M. E. HARRISON.