

F. E. RICH.  
MOTOR BRACKET FOR PRINTING PRESSES.  
APPLICATION FILED JULY 2, 1902.

NO MODEL.

Fig. 1

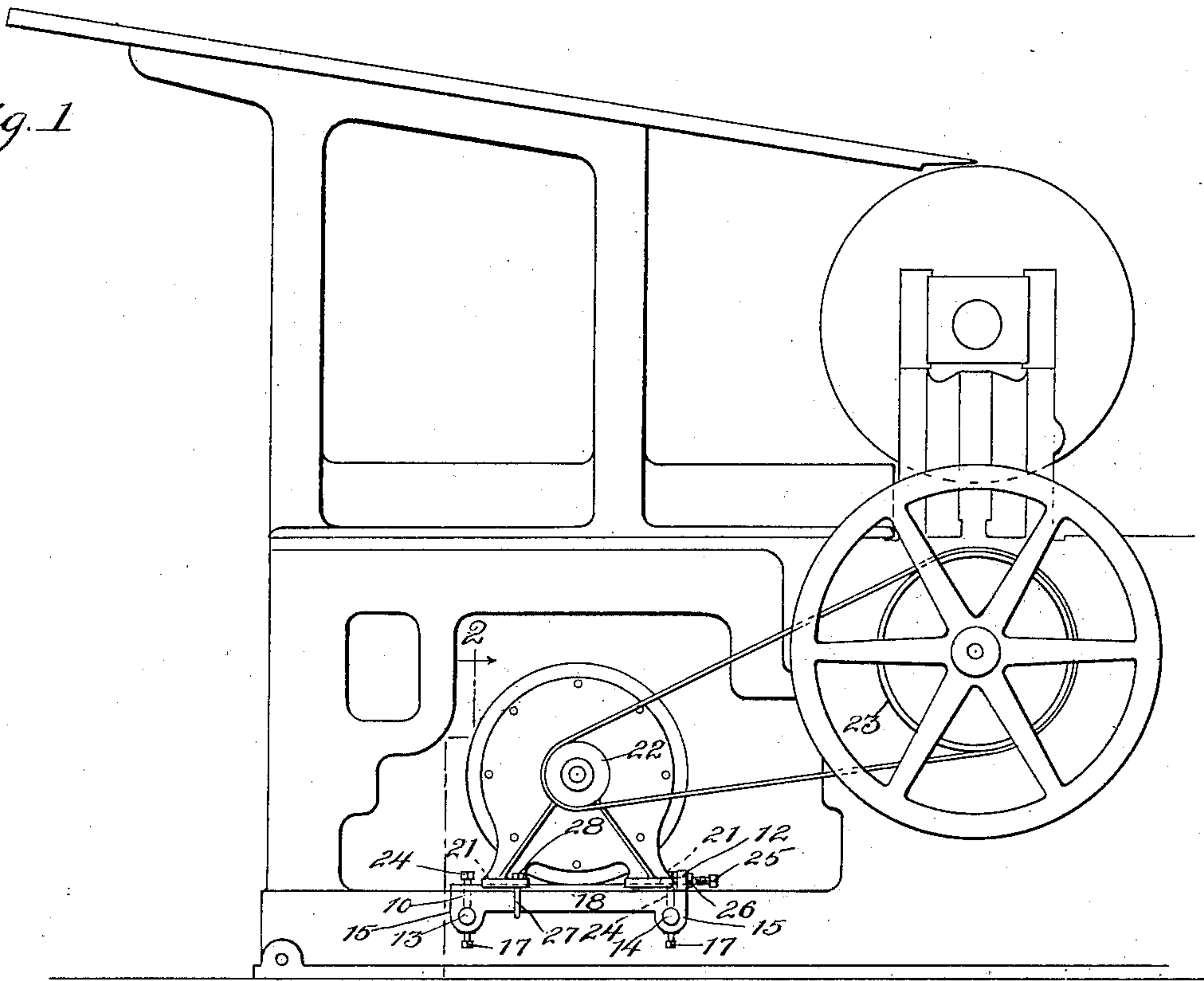


Fig. 2

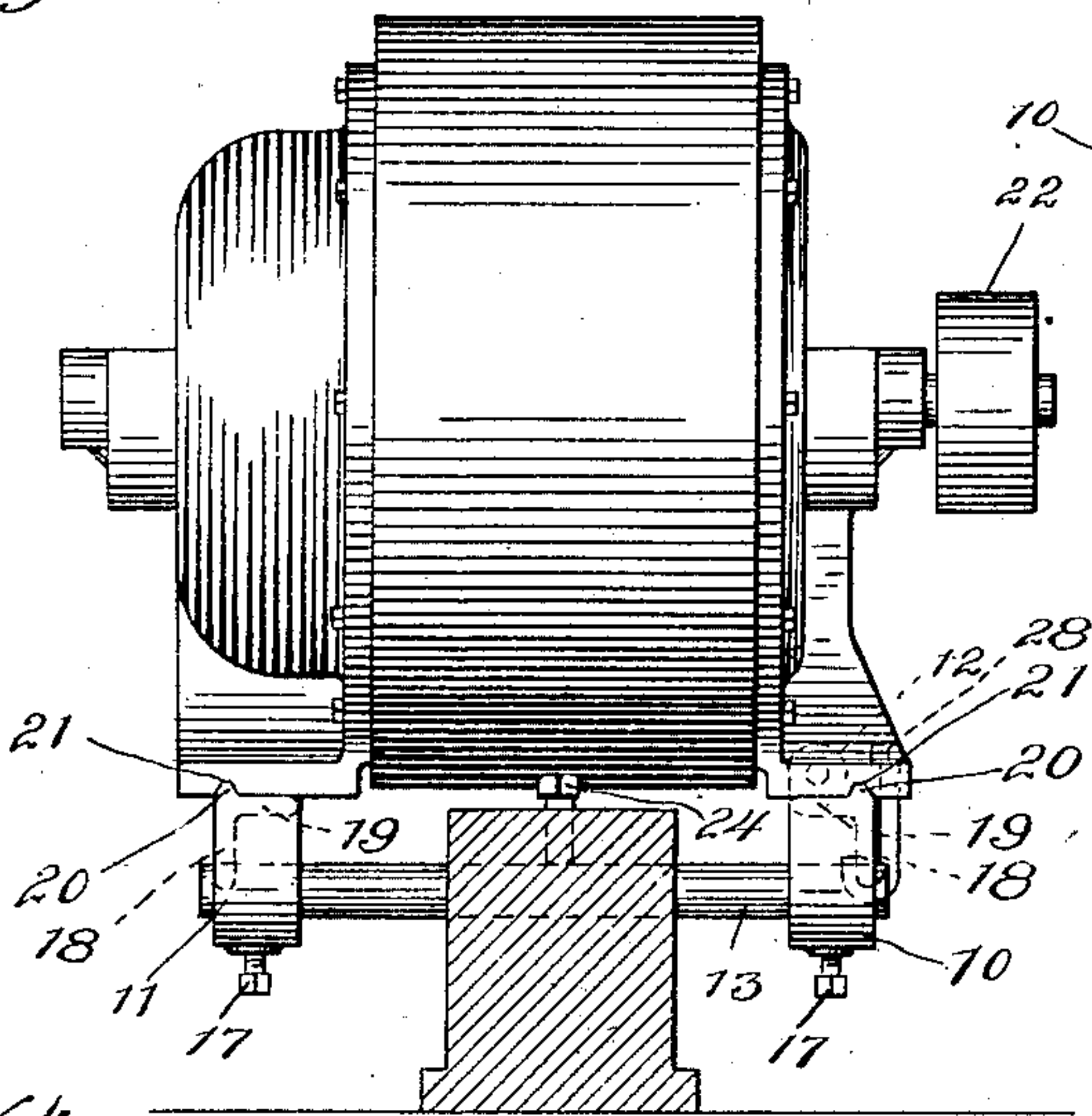


Fig. 3

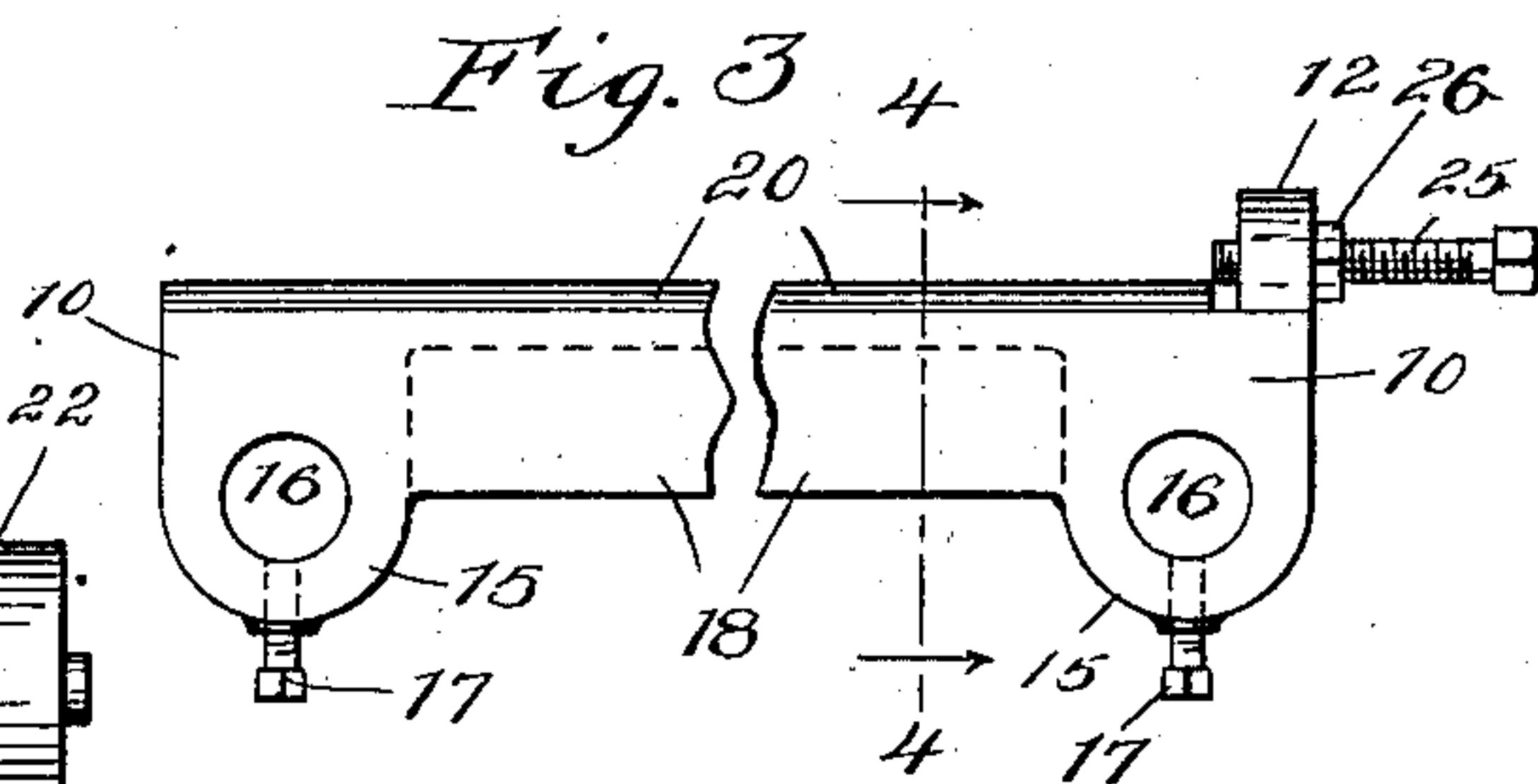
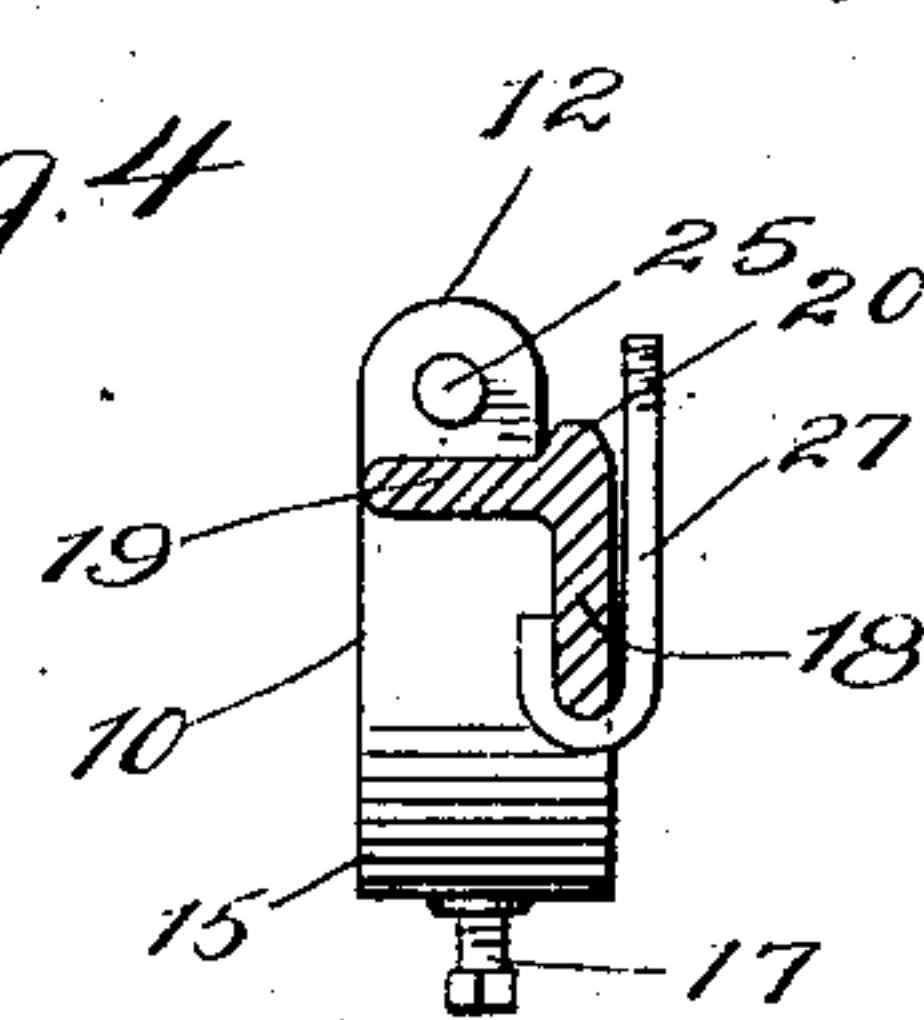


Fig. 4



Witnesses:

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# UNITED STATES PATENT OFFICE.

FRANK E. RICH, OF CHICAGO, ILLINOIS.

## MOTOR-BRACKET FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 728,301, dated May 19, 1903.

Application filed July 2, 1902. Serial No. 114,064. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK E. RICH, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have  
5 invented a new and useful Improvement in Motor-Brackets for Printing-Presses, of which the following is a specification.

This invention relates to a means for mounting upon the framework of a printing-press  
10 an electric motor for driving the press.

Where a printing-press is to be driven by an electric motor, it is exceedingly desirable both for saving of space and for stability that the motor should be mounted upon and se-  
15 cured to the framework of the press itself; and the present invention consists in a novel mounting device or bracket by means of which the ordinary electric motor may be so secured to the bottom rail of the press-frame  
20 that the motor-shaft is held at all times parallel to the press-driving shaft, and the motor is allowed a certain amount of motion in both a longitudinal and transverse direction, the said bracket being so constructed and or-  
25 ganized that it may be rigidly attached to the frame-piece of any ordinary press by drilling two holes through said frame-piece to receive the bracket-supports and a third hole to receive a set-screw.

30 The invention consists in the novel combination of parts and devices herein shown and described.

In the accompanying drawings, which form a part of this specification, Figure 1 is a side  
35 elevation of a part of an ordinary printing-press, showing its driving-shaft and the band-wheel thereon and showing the motor and the motor-bracket attaching it to the press in the manner of this invention. Fig. 2 is a section  
40 on the line 2 2 of Fig. 1, showing the bottom rail of the press and the motor attached thereto by the bracket, this view being upon a larger scale than Fig. 1. Fig. 3 is a side view of one of the side pieces of the motor-bracket  
45 detached, and Fig. 4 is a section on the line 4 4 of Fig. 3.

In said drawings like characters of reference made use of in the several figures indicate like parts wherever used.

50 The bracket consists, essentially, of four principal parts—namely, two side pieces 10 11, which may be identical in structure and

each provided with the lug 12, although the lug 12 is necessary upon only one of said pieces, and two cross-bars 13 14. The side  
55 pieces 10 and 11 have at each end a solid head 15, pierced with a transverse aperture 16 to receive the cross-bars 13 14, and each of these solid heads is provided with a set-screw 17 for securing the side piece to the  
60 cross-bar. Between the heads 15 the side piece consists of an L-shaped web comprising the vertical member 18 and the horizontal member 19, and on top is the ridge 20. The holes 16 are drilled at right angles to the  
65 ridge 20.

To attach the motor to the press by this bracket, I drill two holes through the lower side piece of the press-frame parallel to the press-shaft and insert therein the bars 13 and  
70 14, which may be pieces of ordinary shafting or any ordinary round metallic bars. On the ends of these bars I slip the side pieces, one at each side of the press-frame piece, the bars 13 and 14 passing through the hole 16 in said side  
75 pieces. In the bottom of the frame of the motor at each side are cut the grooves 21, parallel to each other and at right angles to the shaft of the motor, to receive the ridges 20 of the side pieces, and the motor is placed on the  
80 side pieces of the bracket with these ridges in said grooves. The motor-shaft will now stand parallel to the press-shaft. The set-screws 17 are now set home, rigidly fastening the side pieces to the bars 13 14, and the motor may  
85 now be moved laterally across the press-frame by the sliding of the bars 13 and 14 through the holes in the press-frame and the band-wheel 22 of the motor thus brought into accurate alinement with the band-wheel 23 of  
90 the press. When accurate alinement is obtained, the set-screw 24 is set home on the bar 13, thus fastening the bracket against further lateral movements. The motor is now adjusted to or from the band-wheel of  
95 the press by sliding it on the ridges or ways 20, and the set-screw 25, tapped through the projection 12, is set home against the end of the motor-frame and the jam-nut 26 tightened to secure it in this position. The hook 27 is  
100 then placed under the web 18 of the side piece 10 and its screw-threaded end passed up through a hole bored in the foot of the motor-frame and a nut 28 screwed onto said thread-



ed end, and the motor is now secured to the press-frame in a perfectly rigid manner in accurate position and alinement and in such manner that it is easily adjusted from time to time or easily removed from said frame for the purpose of repair.

I claim—

1. The bracket for securing an electric motor to the frame of the machine which it is to drive, which consists of two side pieces each perforated with two holes, and two bars adapted to slide through said holes and through holes in the machine-frame and means for securing the side pieces and the bars together, substantially as specified.

2. The combination of two side pieces each provided with two holes, two bars adapted to be passed through said holes to be secured to the side pieces, and a set-screw upon one of the side pieces for setting against the end of the motor, and said motor, substantially as specified.

3. The combination of two side pieces each provided with two holes, two bars adapted to be passed through said holes, and to be secured to said side pieces, a set-screw upon one of the side pieces for setting against the end of the motor, said motor, and a vertical screw for securing the motor to the side pieces, substantially as specified.

4. The combination of the two side pieces each having two holes, two bars passing through said side pieces, the frame-piece of the machine bored with two holes to receive the bars and a set-screw tapped through said frame-piece to secure the structure against lateral movement when alined, substantially as specified.

5. The combination of the two cross-bars, the two side pieces each provided with two holes to receive the two cross-bars, and each provided with a ridge or projection on top of its surface adapted to enter parallel grooves in the bottom of the motor-frame, means as set-screws for securing the side pieces adjustably to the said two bars, means as a bolt for securing the motor down to the side pieces, and means, as a set-screw in one of the side pieces to adjust the motor endwise on the side pieces, the framework of the machine bored with two holes to receive the two bars, means as a set-screw for securing the structure from lateral movement on said frame-piece, and the motor and its frame provided with grooves cut in the bottom of said frame, substantially as specified.

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Witnesses:

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*For the Patent*  
*728,301*

*728,301* *see spec.*

*Act. 728,301*