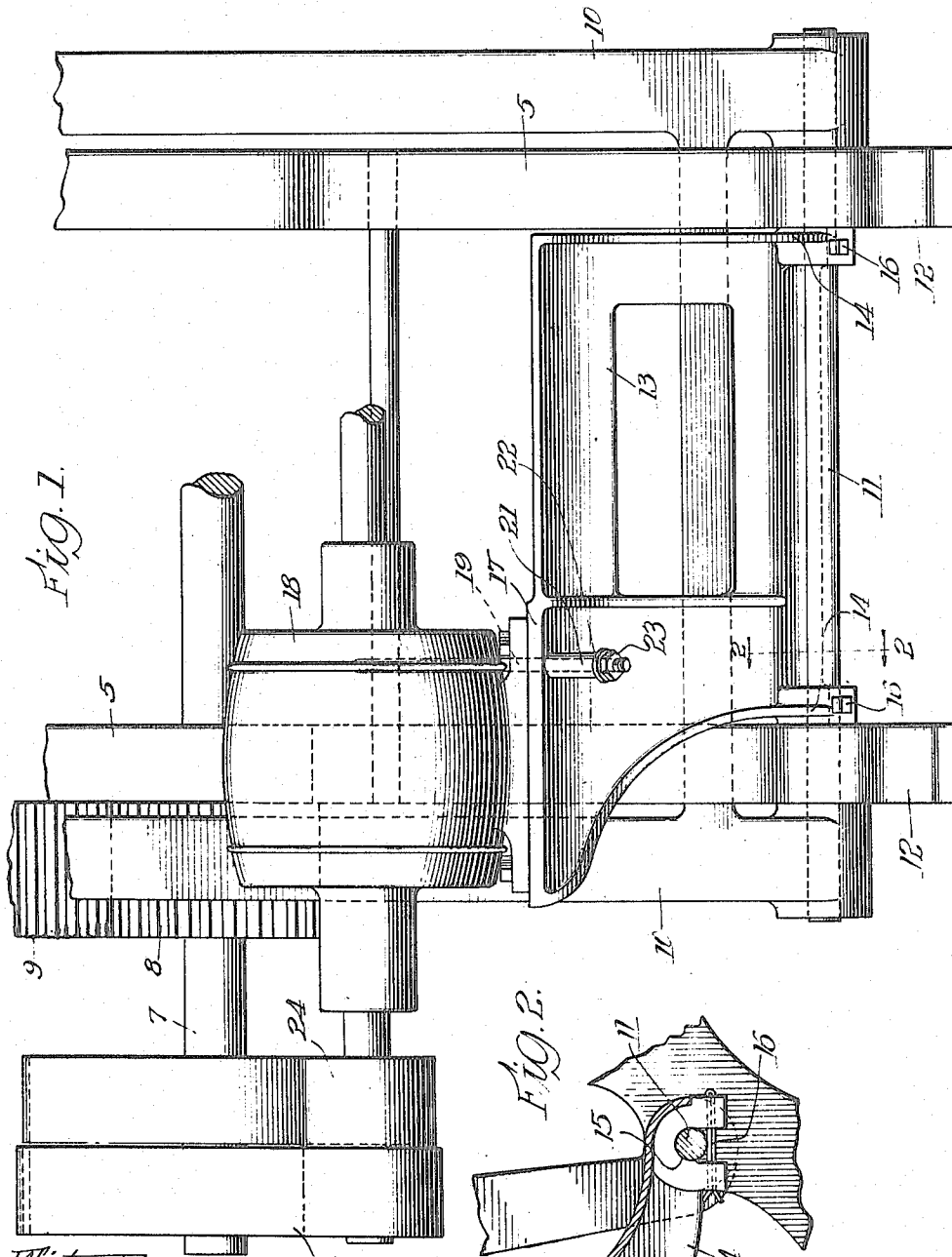


E. CHESHIRE.
DRIVING MOTOR SUPPORT.
APPLICATION FILED SEPT. 18, 1913.

1,135,767.

Patented Apr. 13, 1915.

2 SHEETS—SHEET 1.



Witnesses:
G. D. Marus
R. Bauerle

BY: James. Addington Ames & Seibel & Co.

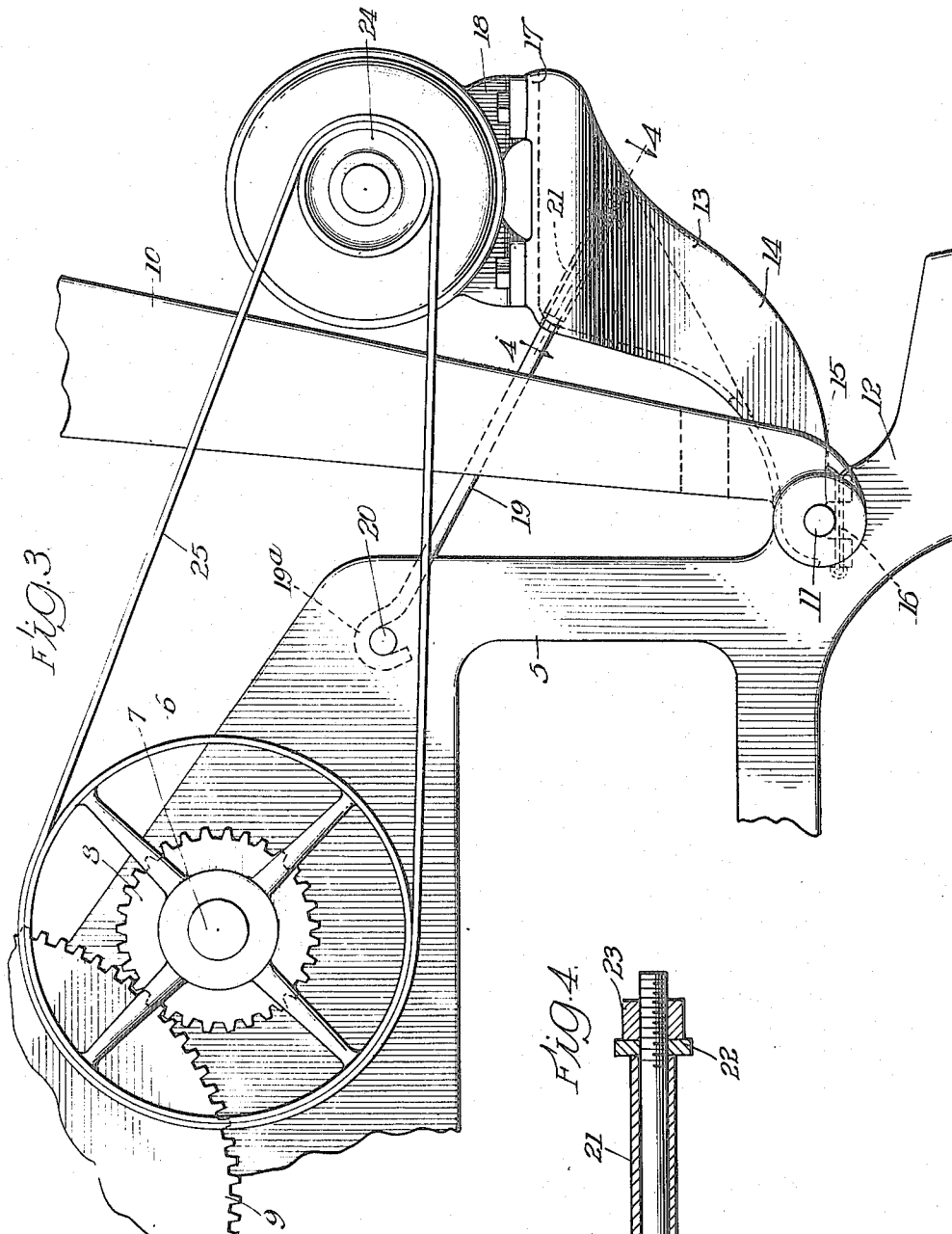
Inventor:
Edward Cheshire
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UNITED STATES PATENT OFFICE.

EDWARD CHESHIRE, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO MILLER SAW TRIMMER COMPANY OF MICHIGAN, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF MICHIGAN.

DRIVING-MOTOR SUPPORT.

1,135,767.

Specification of Letters Patent.

Patented Apr. 13, 1915.

Application filed September 18, 1913. Serial No. 790,528.

To all whom it may concern:

Be it known that I, EDWARD CHESHIRE, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Driving-Motor Supports, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention pertains to driving motor supports, particularly applicable to printing presses of the Gordon type.

It is the principal object of the invention to provide an improved form of support for the driving motor of a Gordon press which will exercise the function of an adjustable belt tightener.

It is a further object of the invention to provide a support of this character, which may readily be attached to, or removed from the press, without the necessity of preparation or alteration of the frame of the press.

I have shown in the accompanying drawings, by way of example, described in the following specification, a support constructed in accordance with my invention; but I wish it understood that changes may be made in the structural details of same without exceeding the scope of the invention as defined in the appended claims.

In the drawings—Figure 1 is a front elevation of the lower end of a printing press of the Gordon type, having my improved driving motor support attached thereto; Fig. 2 is an enlarged detail section taken on the line 2—2 of Fig. 1, looking in the direction of the arrows; Fig. 3 is a side elevation of the parts shown in Fig. 1; and Fig. 4 is an enlarged section taken on the line 4—4 of Fig. 3, looking in the direction of the arrows.

In the drawings I have illustrated the lower portion of the frame of a press of the ordinary Gordon type. The frame portion provides a means on which the platen is mounted, and also secured on this frame is an operating mechanism, of which operating mechanism I have illustrated the pulley 6 mounted upon a shaft 7 secured on the frame 5, and on this shaft 7 is arranged a pinion 8 adapted to mesh with the gear 9 of the operating mechanism. The movable frame 10 on which is supported the bed of

the press, is hingedly mounted upon a rod 55 or bar 11 which extends between the front feet 12 of the frame 5.

Hingedly mounted on the rod 11 is a bracket 13. The legs of the bracket are notched or bifurcated as at 15 so as to fit over the rod 11. Under the rod and through the two arms of the legs cotter pins 16 are provided thus locking the legs on the rod while permitting a pivoted movement of the bracket. The legs 14 of the bracket extend outwardly and upwardly from the rod 12 and support a suitable shelf 17 on which is mounted the driving motor 18 of the press. With this construction, the tendency of the bracket and motor is, under the force of gravity, to drop away from the press. To hold the bracket in position, therefore, I provide a link or rod 19, the inner end of which is bent to form a hook 19^a. This is hooked over a spacing bar 20 in the frame of the press. The other and outer end of the rod 19 is screw threaded and passes through a sleeve 21 which bears against the under side of the shelf 17. The sleeve 21 is provided with a collar 22; and a nut 23, engaging the screw threaded end of the rod 19, bears on said collar. By this arrangement the bracket is held against movement away from the press frame. The motor 18 is provided with a pulley 24 over which, and the pulley 6, passes the driving belt 25.

Inasmuch as every press of the Gordon type is provided with a rod such as the rod 11 and a spacing bar such as the spacing bar 20, it will be clear that no preparation or alteration of the press frame is necessary for attaching my device. It is only necessary to place the bifurcated or notched portions of the legs 14 over the rod or shaft 11, securing them in place with cotter pins, hook the rod 19 over the spacing bar and attach the belt.

It will be noted that, due to the tendency of the shelf and motor to swing outwardly and downwardly, the weight of the motor and shelf will apply tension to the belt 25. The tension is readily adjustable by means of the nut 23 on the rod 19. If the belt is too loose, loosening the nut 23 will cause the motor and bracket to swing farther outward and thus the belt will be tightened. If, on the other hand, the belt is too tight, by tightening the nut 23 the motor and shelf

will be drawn in toward the frame of the press thereby slightly loosening the belt. That is, the motor and the shelf on which it is placed form an adjustable weight for maintaining the driving belt at a proper tension.

Owing to the position of the bracket 13 with relation to the vertical, the component forces acting thereon are such that with the coöperation of the adjustable bar 19 great nicety and precision of tension regulation is possible.

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

1. The combination with a machine including a frame, a bar associated therewith, and a driven pulley carried by said frame, of a support adapted for receiving a driving motor for belt connection with said driven pulley, an arm extending downwardly from said support and formed with a hook for engaging said bar, and an adjustable link connected between said support and a part of the frame above said bar, whereby said

motor exercises a tension on the belt, such tension being variable by adjusting said link.

2. The combination with a machine including a frame, an upper and a lower cross bar connected with said frame, and a driven pulley carried by said frame, of a support adapted for receiving a driving motor for belt connection with said driven pulley, an arm extending downwardly from said support and formed with a hook for engaging the lower of said cross bars, and a rod formed with a hook for engaging the upper of said cross bars, said rod passing through said support and having an adjusting nut beyond the latter, whereby said motor exercises a tension on the belt, such tension being variable by adjusting said link.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

EDWARD CHESHIRE.

Witnesses:

CHARLES G. COPE,
WALTER N. FLANAGAN.