

(No Model.)

W. R. FEE.
BELT REST.

No. 369,173.

Patented Aug. 30, 1887.

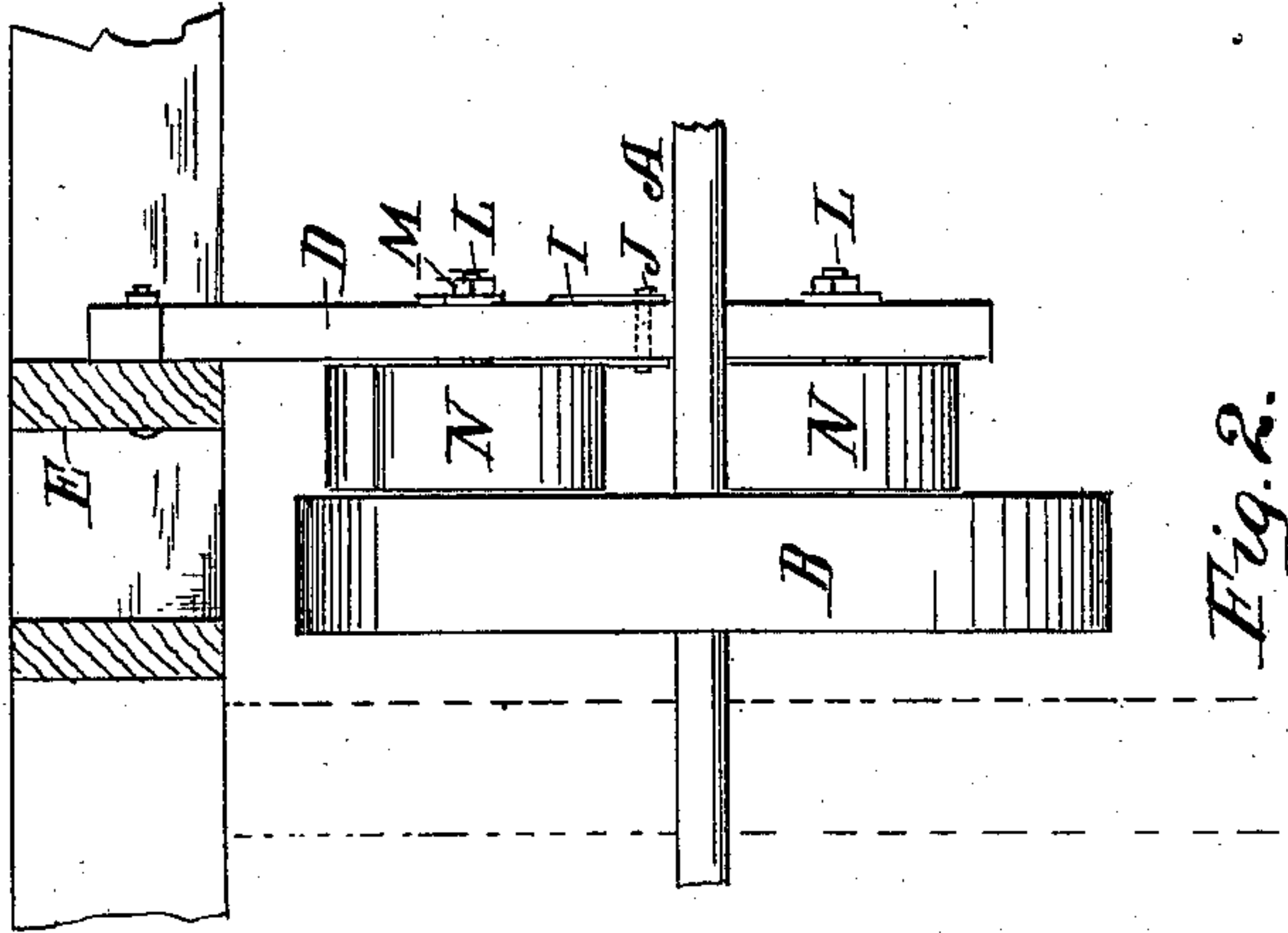


Fig. 2.

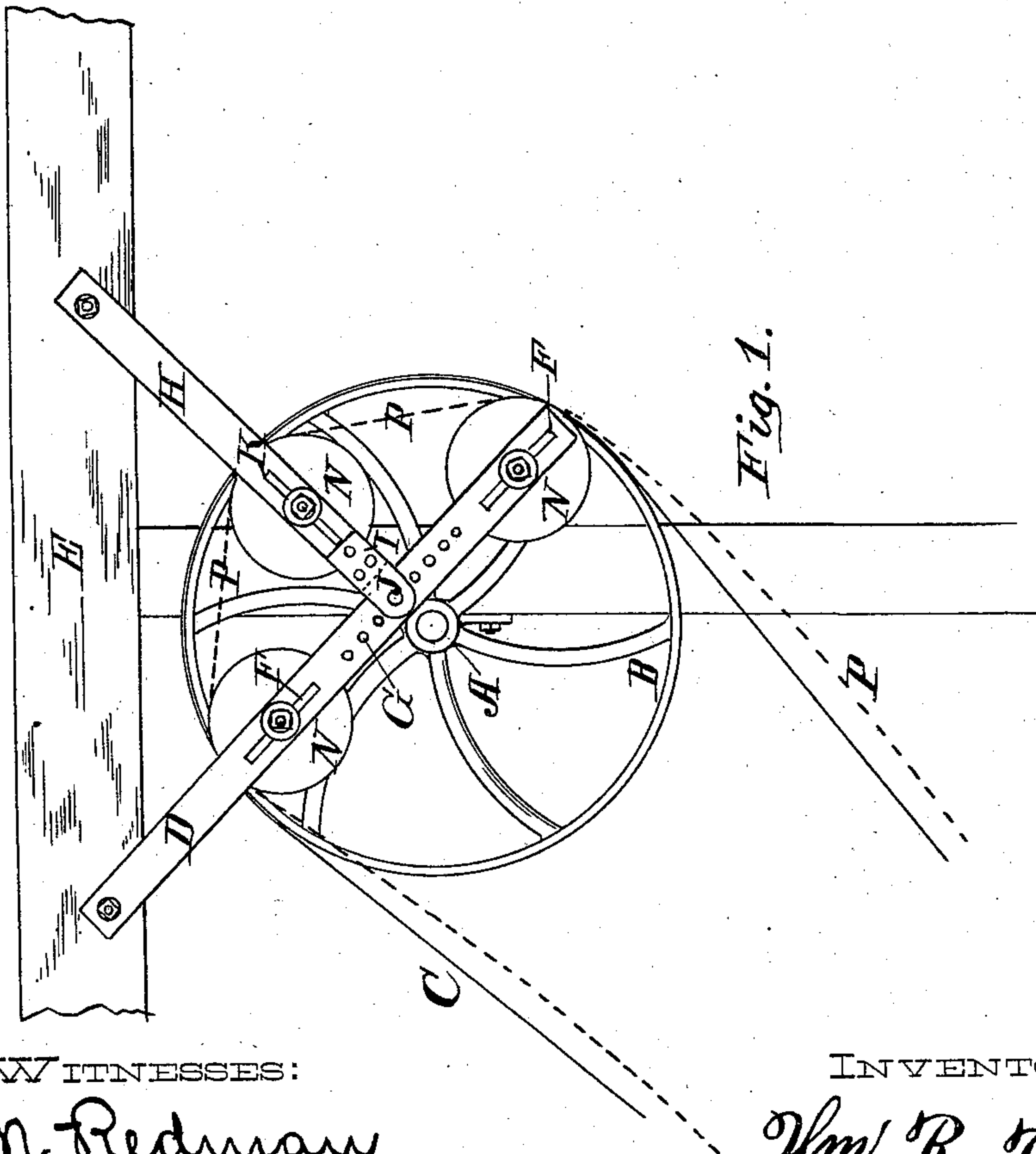


Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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BELT-REST.

SPECIFICATION forming part of Letters Patent No. 369,173, dated August 30, 1887.

Application filed June 9, 1887. Serial No. 240,782. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. FEE, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful
5 Improvement in Belt-Rests, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side view of my improved belt-rest, and Fig. 2 is a front view of the same.

10 The object of my invention is to provide a simple and effective belt-rest, so arranged that the belt can be easily shifted from the pulley while in motion, and when so shifted the belt will be slackened; and it consists in
15 providing two arms or hangers hinged to each other at their lower ends, with three arms or spurs which carry pulleys, and these pulleys are arranged so that two of them are on the one arm which projects downwardly at right
20 angles to the belt, while the other pulley is on the other arm or hanger which is hinged to the hanger which carries the two pulleys, all of which will now be fully set forth in detail.

25 In the accompanying drawings, A represents the line of shafting having thereon a pulley, B. In order to show the disposition and arrangement of the shifter, I represent the belting C placed on the pulley and extending
30 downwardly at an angle of about forty-five degrees.

D is an arm or bar bolted at its upper end to the beam or joist E. This bar extends downwardly at an angle of about forty-five
35 degrees, or at right angles to the line of the belting C. The bar preferably passes down above the shaft A, and it is provided with two slots, F F, each located near the peripheral point of the pulley B. Midway between these
40 slots are holes G.

H is a short bar, also bolted to the joist E, and this extends downwardly at right angles to and abuts against the bar D, to which it is secured by means of a stirrup, I, a bolt, J,
45 passing through the stirrup and holes G to hold the two arms together at any desired point. This arm has also a slot, K, near the peripheral point of the pulley B.

As shown in Fig. 2, L represents arms, which
50 pass through the slots in the arms D H, and

are secured thereto by means of nuts M. These arms have suitable bearing surfaces, on which are journaled small pulleys N. These pulleys have preferably the same width face as the pulley B, and the arms D H are removed a
55 sufficient distance from the pulley B to afford space for the pulleys N to move in.

In locating the arms D H it will be well to observe that the long arm D extends downwardly at right angles with the belt C, and the
60 arms L are so adjusted in the slots F that the peripheries of these pulleys coincide or are even with the periphery of the pulley B. The other pulley on the short arm H is also adjusted so that its periphery is level with the
65 periphery of the pulley B. When, therefore, it is desired to shift the belt from the pulley B to the idler-pulleys N on the arms or hangers, the straight intervening spaces between the pulleys will permit the belt to sag, as shown
70 by dotted lines, thereby relieving the belt of the tension, as well as relieving it from contact with the drive-pulley B. Any ordinary shifting-lever will suffice to throw the belt on
75 or off.

It is obvious that the bar D must in all cases be at right angles with the direction of the belt C, and in case the belt should extend from the pulley B to another pulley on a horizontal
80 line the bar or arm D would extend downwardly vertically by the side of the shaft A, and the lower end of the bar H would have its stirrup secured to one of the holes G, near the lower end of the bar D, and extend thence upwardly
85 at such an angle that the arm L for the idler-pulley would be on a horizontal line with the shaft A.

What I claim as new is—

1. In a belt-rest, the combination of an arm or bar adapted to be secured to the beam or
90 joist above the shafting and extending downwardly at right angles to the line of the belting, and provided with two adjustable pulleys, with a secondary bar having thereon an adjustable pulley midway between the other pul-
95 leys, substantially as herein set forth.

2. A belt-rest comprising two arms or bars the upper ends of which are adapted to be secured to the beams or joists, and having their
100 lower ends adjustably secured to each other,

said arms being provided with three movable pulleys arranged alongside of the belt-pulley, substantially as herein set forth.

3. In a belt-rest, a dependent bar or arm, 5 D, having slotted openings for the pulley bearing arms and provided centrally with adjusting-holes, in combination with the supplementary arm H, having a stirrup for attachment to the arm D, and a slot to receive the

single pulley-arm, and with the pulleys on said arms, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand, this 7th day of March, 1887, in the presence of witnesses.

WILLIAM R. FEE.

Witnesses:

R. S. MILLAR,

J. S. ZERBE.