

I. E. PALMER.
GUIDE FOR TEXTILE MATERIAL.
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932,315.

Patented Aug. 24, 1909.

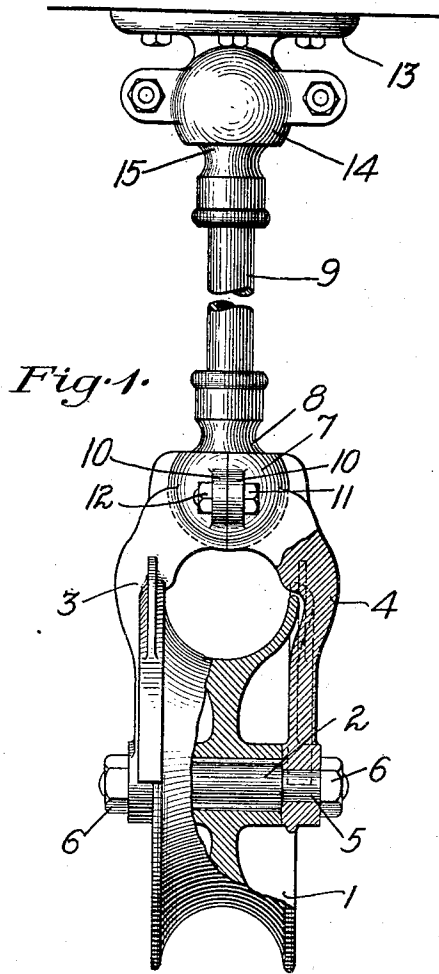


Fig. 1.

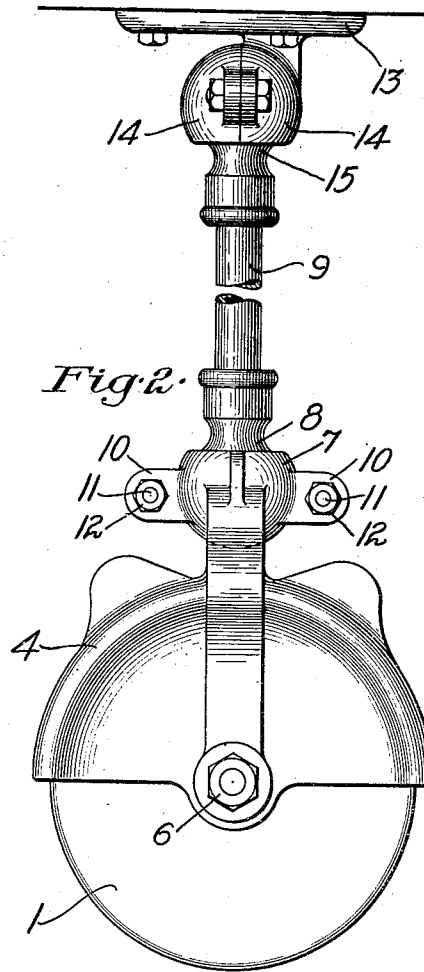


Fig. 2.

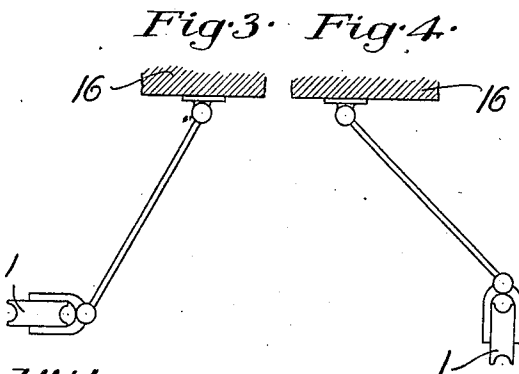


Fig. 3. Fig. 4.

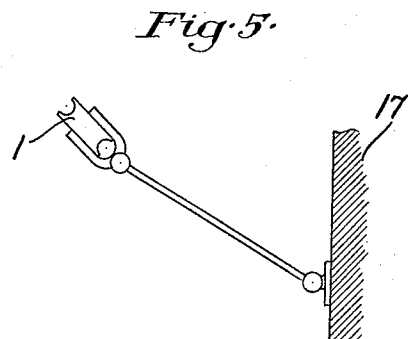


Fig. 5.

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UNITED STATES PATENT OFFICE.

ISAAC E. PALMER, OF MIDDLETOWN, CONNECTICUT.

GUIDE FOR TEXTILE MATERIAL.

932,315.

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Application filed December 26, 1908. Serial No. 469,188.

To all whom it may concern:

Be it known that I, ISAAC E. PALMER, a citizen of the United States, residing at Middletown, in the county of Middlesex and State of Connecticut, have invented an Improvement in Guides for Textile Material, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to guiding means for textile and other material, although in certain embodiments thereof it is capable of use in other relations.

In order that the principles of my invention may be readily understood, I have disclosed a single type or embodiment thereof in the accompanying drawings, wherein:

Figure 1 is a view, partly in front elevation and partly in vertical section, of a guide embodying my invention; Fig. 2 is a side elevation of the guide shown in Fig. 1; and Figs. 3, 4 and 5 are somewhat diagrammatic views illustrating certain capacities for adjustment possessed by the guide embodying my invention.

Textile material, either in the form of warp chains or in the form of narrow bands or ropes, is, in the process of manufacture or treatment, conveyed from one apparatus to another, being often drawn or directed through guiding members from room to room, or through long distances and in irregular paths, owing to the relative positions of the treating or manufacturing apparatus.

My invention contemplates the provision of a guide which may be supported from a wall or ceiling, and at any angle, so as to direct the material in its proper course regardless of the point of attachment of the guide.

Referring more particularly to the drawings, the guide, which is preferably rotatable and in the form of a grooved roll or pulley, is represented at 1, it being of any suitable material and construction. It is here shown as mounted for rotation upon a stud or axle 2, supported within a housing which is here shown as composed of two members 3, 4, which are provided with bearings for the stud 2. The stud 2 may be removably mounted in one or both of the members 3, 4. For example, the reduced end 5 of the stud 2 may project through the member 4 and may receive a nut 6, by which the parts are tightened in position. The di-

vided housing, here shown as composed of the members 3, 4, is provided with a socket 7 to receive therein the spherical head 8 of an arm, bar or link 9, the head 8 being clamped in position by means of the ears 10 upon the members 3 and 4, said ears being held in engagement by bolts 11 and nuts 12, thus tightly clamping the housing to the head 8 and preventing relative movement when adjusted into the desired position. It will be apparent that the divided housing and guiding roll may be adjusted into any angular position with respect to the arm 9. The opposite end of the arm 9 is preferably adjustably connected with a suitable support and is here shown as connected in a manner similar to the connection of the said arm and housing. The support 13 is here represented as a bracket, which may be of any desired shape and may be secured to the ceiling, wall, or floor of the mill, if desired. The said bracket is provided with a divided socket 14, similar to that shown for receiving the head 8 of the arm 9, the spherical head 15 of the arm being received therein, thus permitting the adjustment of the arm 9 into any angular position with respect to the bracket or support 13. The arm 9 may be of any suitable length and construction, but is here shown as tubular, to afford great strength with lightness.

As shown in Figs. 3 and 4, the guide may be supported from the ceiling 16, and may be adjusted into a horizontal position as shown in Fig. 3, or a vertical position as shown in Fig. 4, or any intermediate position. As shown in Fig. 5, the guide is supported from a wall 17 with relation to which it may be adjusted into or set in any angular position.

It will thus be apparent that my invention embodies means for supporting a guide which is especially adapted for directing textile material from place to place, the adjustments of the guide being such as to meet all exigencies of mill construction or arrangement. The guide having been adjusted into the desired position, is then clamped and held from movement, excepting for the rotation of the roll if that type of guide be employed. It will be apparent, however, that the angular position of the guide may be almost instantly changed when necessary.

Having thus described one type or embodiment of my invention, I desire it to be understood that although specific terms are

employed they are used in a generic and descriptive sense and not for purposes of limitation, the scope of the invention being set forth in the following claims.

- 5 1. A guide for textile material or the like, comprising in combination, a rotary guiding member, its housing, serving to support the guiding member and having provisions to confine the guided textile material, a bracket
10 having means to attach the same to a support, and angularly adjustable means connecting said housing and bracket and including means for securing and maintaining the said housing fixed in the position to
15 which it is adjusted.
2. A guide for textile material or the like, comprising in combination a guiding member, a supporting member therefor, said guiding member having an axle mounted in
20 said supporting member, a bracket adapted to be attached to a support, and a bar intermediate said supporting member and bracket, and having a ball and socket connection
25 nections including means fixedly to secure the guiding member in any one of a plurality of guiding positions.
3. A guide for textile material or the like, comprising in combination a rotary guiding
30 member, a divided housing therefor having a divided socket, a supporting bracket having a divided socket, an arm having heads received within and angularly adjustable in said sockets and means fixedly to secure the
35 divided housing and the head received within the opposite divided socket in any one of a plurality of positions, thereby to maintain said guiding member fixedly in any one of a plurality of guiding positions.
- 40 4. A guide for textile material or the like, comprising in combination a rotary guiding member, a housing therefor, a supporting arm, adjustable means connecting said arm

and housing and permitting angular adjustment of the arm in any direction, a supporting
45 bracket, and adjustable means connecting said bracket and arm, said adjustable means including means fixedly to secure said rotary guiding member in any one of a plurality of guiding positions.

5. A guide for textile material or the like, comprising in combination a rotary guiding member, its housing, a supporting bracket, and a link connecting said housing and bracket and angularly adjustable in every
55 direction with respect both to said housing and said bracket and means for fixedly securing said housing and rotary guiding member in any one of a plurality of guiding positions.

6. A guide for textile materials or the like comprising in combination a rotary guiding member, a divided housing having a divided socket, said housing inclosing the guided material and confining it to the surface of
65 the rotary guiding member, a supporting bracket having a divided socket and an arm having heads at its opposite ends received respectively in the divided socket of the housing and the divided socket of the bracket
70 and adjustable therein in every angular direction and means fixedly to secure said housing and the head received in the divided socket of the supporting bracket in any one of a plurality of positions, whereby the
75 rotary guiding member may be fixedly held in any one of a plurality of guiding positions.

In testimony whereof, I have signed my name to this specification, in the presence of
80 two subscribing witnesses.

ISAAC E. PALMER.

Witnesses:

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REUBEN M. BURR.