No. 799,699. PATENTED SEPT. 19, 1905.

J. WINTER.

SKID FOR MOVING RAILS.

APPLICATION FILED JULY 19, 1904. RENEWED AUG. 16, 1905.

Fig. 1.

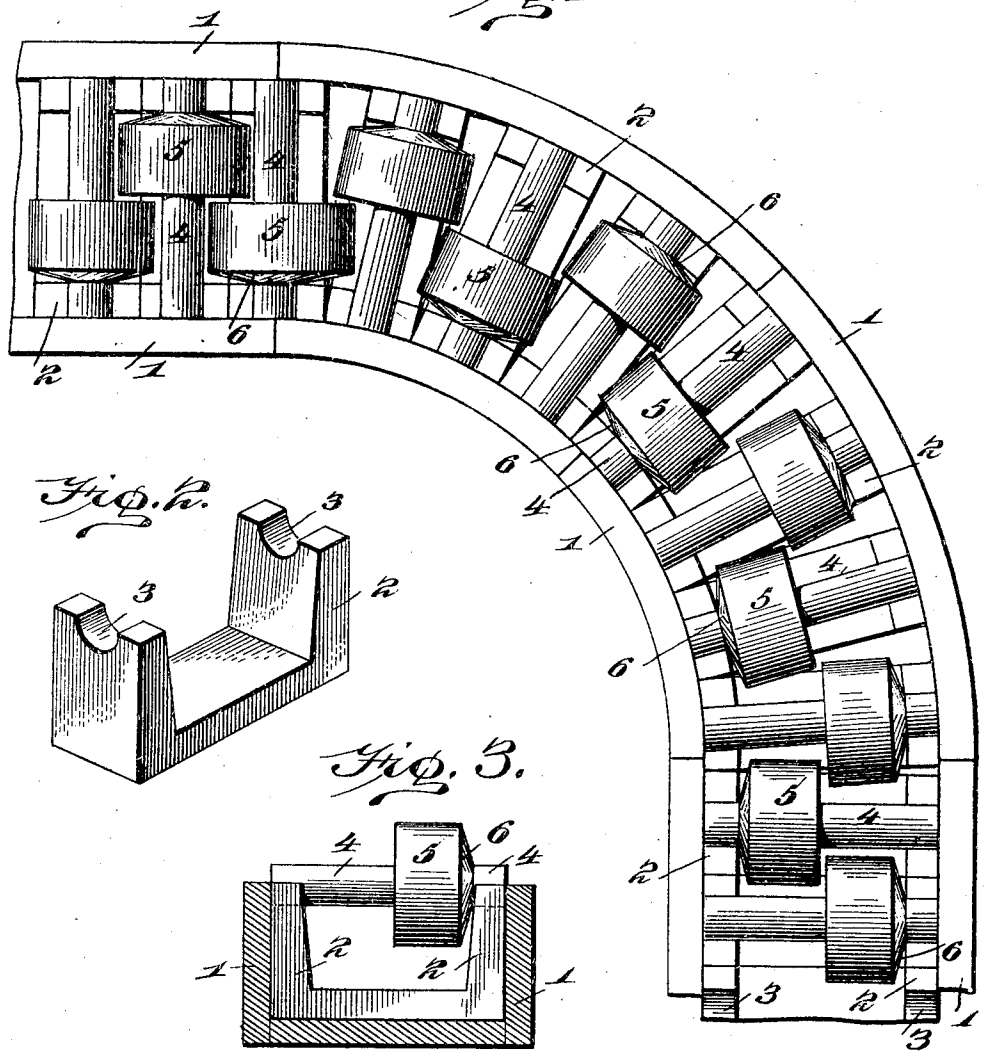
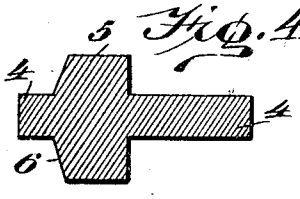


Fig. 2.

Fig. 3.

Fig. 4.



WITNESSES:

H. G. Dieterich

A. H. Simms

INVENTOR

James Winter

BY Knight Bros

Attorneys

UNITED STATES PATENT OFFICE.

JAMES WINTER, OF WEST SENECA, NEW YORK.

SKID FOR MOVING RAILS.

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To all whom it may concern:

Be it known that I, JAMES WINTER, a citizen of the United States, residing at West Seneca, in the county of Erie, State of New York, have invented certain new and useful Improvements in Skids for Moving Rails, of which the following is a specification.

This invention relates to skids; and it has for an object to provide a device of this kind for conveying heavy steel rails and other heavy objects.

A further object is to so position the rollers employed in the skid that the article moving thereon will pass from one roller to an adjacent roller without at any time being off of either of said rollers, and thereby being held against movement.

A still further object is to so mount the rollers on the bearings thereof that they may be easily removed when broken or worn out and replaced by others.

With these and other objects in view the invention consists of the parts and the combination of parts, as set forth in this specification, and particularly pointed out in the appended claims.

In the drawings forming a part of this specification, Figure 1 is a top plan view of a skid made in accordance with my invention. Fig. 2 is a perspective view of one of the removable bearing-frames. Fig. 3 is a vertical transverse section through the skid, showing the positions of the bearing-frame and the roller. Fig. 4 is a longitudinal section of one of the rollers and its shaft.

Referring more particularly to the drawings, and to Fig. 1, it will be seen that my skid is composed of a plurality of trough-sections 1, which may be curved to cause the article carried on this skid to make a turn, or when traveling in a direct line it may be straight. In each of these trough-sections is fitted a plurality of bearing-frames 2 (see Fig. 2) of approximately U-shaped form in longitudinal cross-section and conforming on their outer faces to the inner faces of the trough 1, so as to fit snugly within the same. Each upwardly-projecting end is slightly tapered and is provided with open bearings 3, in which are fitted the ends of a shaft 4, which also engage with the inner faces of the trough 1 to prevent end thrust. Upon each of the shafts 4 is mounted to one side of the center thereof a roller 5, which on one of its faces is beveled at 6, so as to prevent any binding action between said face and the adjacent projection of the bearing-frame. The bearing-frames 2, with the rollers 5 mounted thereon, are so positioned within the trough 1 that each roller extends beyond the periphery of its adjacent rollers, thereby bridging the space that would otherwise be formed between the rollers.

It will thus be seen that my skid is so constructed that it may be cheaply manufactured, that the parts may be easily removed when broken and replaced by new ones, and that articles conveyed thereon are prevented from being caught during their travel.

While I have shown in the drawings the preferred embodiment of my invention, I desire to be understood that I may make, within the scope of the appended claims, various changes in the form, the construction, and the minor details without departing from the spirit or sacrificing any of the advantages of my invention.

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

1. A skid comprising a plurality of shafts, and rollers mounted on the shafts to one side of the center, adjacent rollers on adjacent shafts being on opposite sides of the centers of the shafts.

2. A skid comprising a trough, a plurality of removable bearing-frames fitted in the trough, and rollers journaled in the bearing-frames.

3. A skid comprising a trough, a plurality of removable bearing-frames of approximately U-shaped form fitted in the trough, and rollers journaled in the ends of the bearing-frames.

4. In a skid, the combination of an approximately U-shaped bearing-frame having open bearings in it upper end, a shaft journaled in the open bearings, and a roller mounted on the shaft to one side of the center of the same.

5. In a skid, the combination of a bearing-

frame having open bearings, a shaft journaled in the bearing, and a roller mounted on the shaft to one side of the center thereof and having one of its side faces beveled.

6. A skid comprising a trough, a plurality of bearing-frames arranged in the trough and provided with open bearings, a shaft for each of the bearing-frames abutting at its ends against the inside of the trough, and rollers mounted on the shafts.

The foregoing specification signed this 30th day of June, 1904.

JAMES WINTER.

In presence of—
JOHN STAPLETON,
GEO. N. REED.