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R. E. HORINEK.

BELT GUIDE AND SHIFTER.

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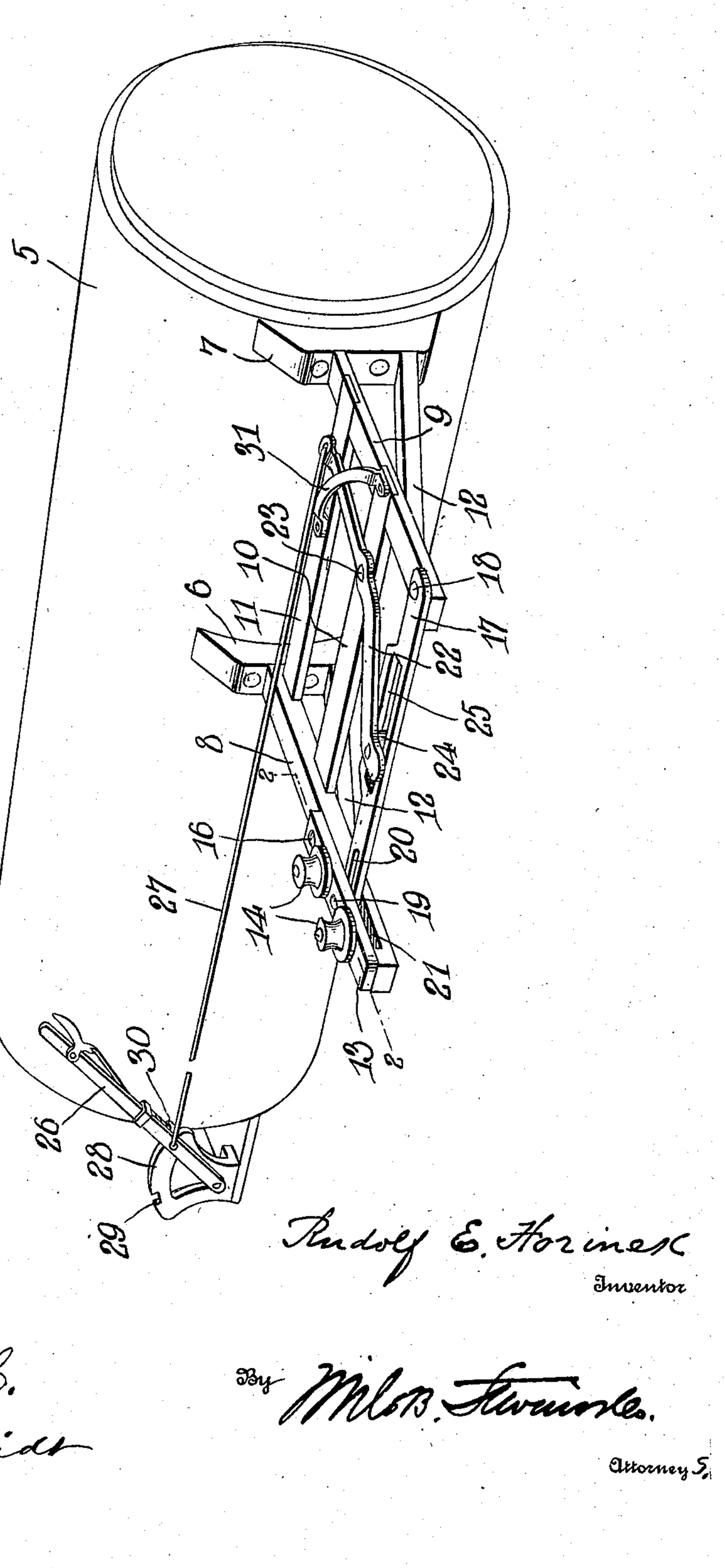

Fig. 1.

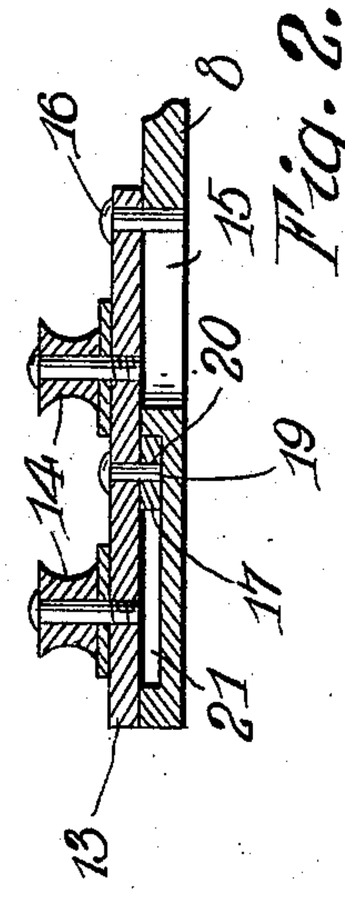

Fig. 2.

Witnesses

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RUDOLF E. HORINEK, OF ATWOOD, KANSAS.

BELT GUIDE AND SHIFTER.

No. 867,974. Specification of Letters Patent. Patented Oct. 15, 1907.

Application filed April 27, 1907. Serial No. 370,630.

To all whom it may concern:

Be it known that I, RUDOLF E. HORINEK, a citizen of the United States, residing at Atwood, in the county of Rawlins and State of Kansas, have invented certain new and useful Improvements in Belt Guides and Shifters, of which the following is a specification.

This invention is a belt-guide and shifter, and has for its object an improved device of this kind designed more particularly for traction engines, by means of which the belt will be guided and kept in proper alinement, and also prevented from being accidentally thrown off the pulley.

The invention also has for its object to provide means within the control of the engineer or attendant for throwing the belt off the pulley.

In the accompanying drawing, Figure 1 is a perspective view of the invention. Fig. 2 is a section on the line 2—2 of Fig. 1.

Referring specifically to the drawing, 5 denotes the boiler of a traction engine only so much thereof being shown as will suffice to show the connection of the invention therewith. To the boiler are bolted or otherwise secured brackets 6 and 7 having horizontally projecting arms 8 and 9, respectively. The bracket-arms are connected by cross-bars 10 and 11, and also suitably braced by bars 12.

On the bracket-arm 8 is mounted a slide 13 carrying a pair of rollers 14 between which the belt travels. The arm has a longitudinal slot 15 in which works a pin 16 depending from the slide. To the slide is connected one end of a lever 17 which is pivoted at its other end to the bracket-arm 9 as indicated at 18. The connection between the slide and the lever is made by a pin 19 carried by the slide and entering a slot 20 in the lever. The slide is on top of the lever 17, and the bracket-arm 8 is cut away or recessed as indicated at 21 in which recess the slotted end of the lever 17 works.

The slide is operated by swinging the lever 17 on its pivot, and for this purpose an operating lever 22 is provided which is pivoted on the cross-bar 10 as indicated at 23, and connected at one end to the lever 17, the connection being made by means of a roller 24 carried by the lever 22 and working in a slot 25 in the lever 17. The other end of the lever 22 is connected to a hand-lever 26 by a rod 27. The hand-lever is pivoted to a segment 28 having notches 29 in which is adapted to seat a spring latch 30 carried by the hand-lever for locking it in the desired position. The hand-lever will be located so as to be within easy reach of the engineer or attendant. The lever 22, adjacent its end which is connected to the rod 27, works under a guide strap 31 secured to the cross-bar 11 and the bracket-arm 9.

The parts are normally in the position shown in Fig. 1 in which the rollers 14 serve to guide the belt to prevent its being accidentally disengaged from the pulley. The belt is thrown off the pulley by operating the hand-lever 26 which, through the connection herein described, moves the slide outwardly, whereupon the inner roller engages the inner edge of the belt and pushes it off the pulley.

The parts herein described are simple in construction and operation, and the device can be readily applied to any ordinary traction engine, and it effectively serves the purpose for which it is intended.

I claim:—

1. A belt-guide and shifter comprising a pair of bracket-arms one of which is recessed and slotted longitudinally, a slide mounted on the slotted arm, and having a guide-pin working in the slot, a lever pivoted at one end to the other bracket-arm and slotted at its opposite end and working in the recess of the slotted arm, a pin carried by the slide and extending into the slot of the lever, means for operating the lever, and belt-guides carried by the slide.

2. A belt-guide and shifter comprising a pair of bracket-arms, a slide mounted on one of the arms, a slotted lever pivoted at one end to the other arm and connected at its opposite end to the slide, a lever, a roller carried thereby working in the slot of the first mentioned lever, means for operating the roller-carrying lever, and belt-guides carried by the slide.

In testimony whereof I affix my signature, in presence of two witnesses.

RUDOLF E. HORINEK.

Witnesses:
JOHN W. LAWRENCE,
S. S. WILCOX.