G. W. WILMOT.

CONVEYER.

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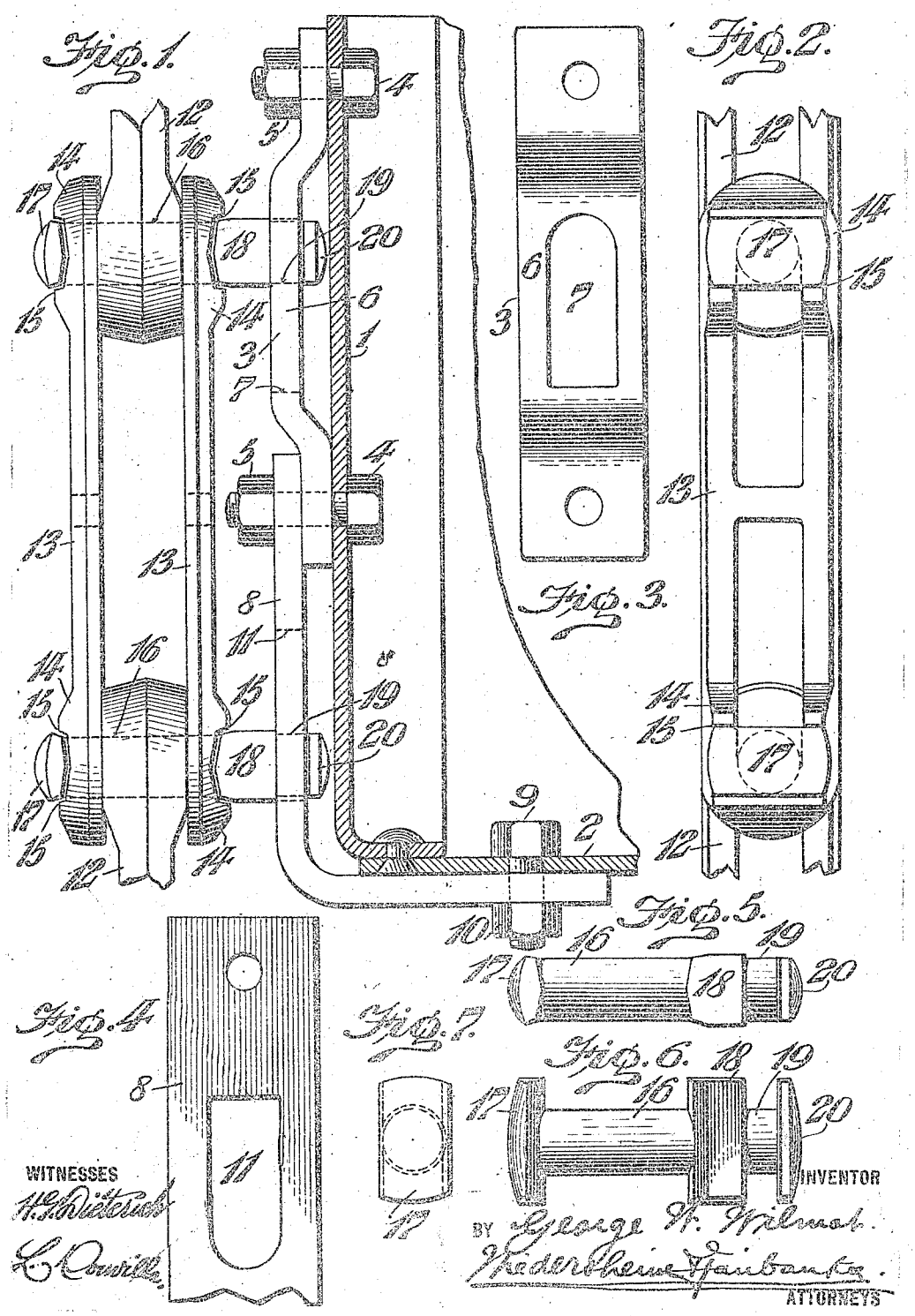
1,068,722. Patented July 29, 1913.



WITNESSES

H. G. Dieterich

L. Conville

INVENTOR

BY George W. Wilmot.

Wiedersheim & Fairbanks.

ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE W. WILMOT, OF HAZLETON, PENNSYLVANIA.

CONVEYER.

1,068,722. Specification of Letters Patent. Patented July 29, 1913.

Application filed September 27, 1912. Serial No. 722,661.

To all whom it may concern:

Be it known that I, GEORGE W. WILMOT, a citizen of the United States, residing in the city of Hazleton and county of Luzerne, State of Pennsylvania, have invented a new and useful Conveyer, of which the following is a specification.

My invention consists of an improved detachable connection for elevator buckets and chains having pivotal connections between their links, such as disclosed in U. S. Letters Patent, No. 870,704, granted to James H. Weston, on the 12th day of November, 1907.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

The annexed drawings and the following description set forth in detail one mechanical form embodying the invention, such detail construction being but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings:—Figure 1 represents a section of a portion of an elevator bucket, showing my improved connection and the chain in elevation. Fig. 2 represents a face view of a portion of the chain. Fig. 3 represents a view of one of the straps which are secured to the bracket. Fig. 4 represents a view of a portion of the lower strap. Fig. 5 represents a view of one of the pivot-pins embodying my invention. Fig. 6 represents a view of such pin, taken at right angles to the former view. Fig. 7 represents an end view of such pin.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, the reference numeral 1 indicates the side and the numeral 2 the bottom of an elevator bucket or similar carrier of any preferred or required form.

A strap, 3, is secured by bolts, 4, and nuts, 5, to the side of the bucket, and said strap is bent outward from the bucket at its middle, 6, and has a slot, 7, having a round, outer end. Another strap, 8, has its upper end secured upon the bolt securing the lower end of the upper strap, and outside of the same, and is bent to be secured to the bottom of the bucket by a bolt, 9, and nut, 10. This strap has a longitudinal slot, 11, the outer or lower end of which is round.

The chain consists of slotted center-links, 12, having enlarged heads, and slotted side-links, 13, having bulges, 14, upon the outer faces of their ends, formed with transverse locking grooves, 15, like the links in the above-recited Weston patent.

Pins, 16, have oblong heads, 17 and 18, substantially like the heads of the pins in said patent, and said pins have extensions, 19, formed with oblong extension-heads, 20.

The chain is assembled by inserting the heads lengthwise of the slots in the links,—the head of the center-link being at about the middles of the side-links. By giving the pin a quarter turn its heads will be transverse to the slots and register with the locking-grooves, so that by extending the links, the latter will be locked together by the pins. When a bucket is to be attached to the chain, the slots in the straps are slipped over the extension-heads of the pins and given each a quarter turn to bring such heads transverse to the slots, whereupon the straps are secured to the bucket. It follows that the chain is slack when assembled or taken apart, and that the chain is taken apart by reversing the assembling process.

An easy attachable and detachable fastening is thus obtained for attaching buckets or similar carriers to chains of conveyers. It follows that the slotted straps and the extension-heads may be employed in connection with any link chain having connecting pins.

Other modes of applying the principle of my invention may be employed for the mode herein explained. Change may therefore be made as regards the mechanism thus disclosed, provided the principles of construction set forth in the following claim are employed.

In a device of the character stated, a carrier, a strap secured to the side of such carrier and spaced from the same and formed with an oblong slot, chain-links, and a rotatable bolt connecting such links and having means for locking it against rotation and formed with an extension having an oblong head adapted to enter the slot in the strap and to be turned transversely to the same.

GEORGE W. WILMOT.

Witnesses:
JOHN J. KELLEY,
DAISY TEMPLE.