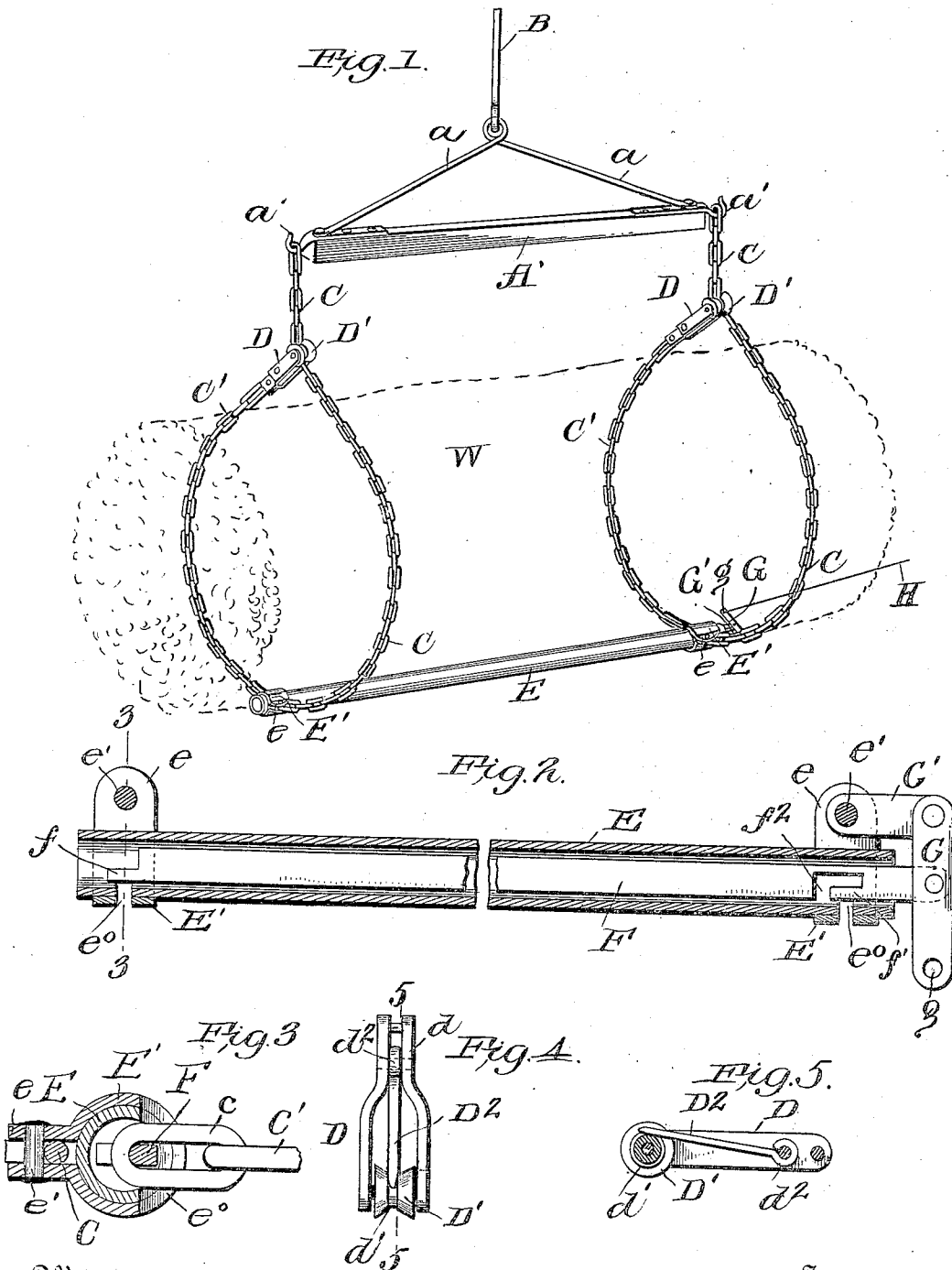


No. 829,879.

PATENTED AUG. 28, 1906.

J. MALLON.
CANE SLING.

APPLICATION FILED JAN. 27, 1906.



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UNITED STATES PATENT OFFICE.

JAMES MALLON, OF NEW ORLEANS, LOUISIANA.

CANE-SLING.

No. 829,879.

Specification of Letters Patent.

Patented Aug. 28, 1906.

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To all whom it may concern:

Be it known that I, JAMES MALLON, a citizen of the United States, residing at New Orleans, parish of Orleans, State of Louisiana, have invented certain new and useful Improvements in Cane-Slings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to improvements in slings for hoisting bundles of material out of loaded carts, cars, or wagons, and it is especially intended for use in unloading cane, corn, sorghum, or the like from carts, cars, or wagons, whereby the material to be lifted may be readily removed and quickly and conveniently detached from the slings.

My invention will be understood by reference to the accompanying drawings, in which the same letters indicate the same parts throughout the several views.

Figure 1 is a perspective view of my improved cane-sling, the cane being shown in dotted lines for the sake of clearness in the drawings. Fig. 2 shows a central longitudinal section of the spacer-bar and releasing means. Fig. 3 shows a cross-section along the line 3 3 of Fig. 2. Fig. 4 is a detail showing one of the blocks for the chain slings, and Fig. 5 shows a section along the line 5 5 of Fig. 4.

A represents a stout bar or beam suspended by the strap *a* from the cable B, which is connected to any suitable derrick or other hoisting device. (Not shown.) This bar or beam A carries at its ends hooks *a'*, from which the parts C of the chain slings are suspended. These chain slings consist of two members C and C', each connected to the hollow bar E, as will be hereinafter described.

The part C' of the chain sling carries a block made of metal side pieces D, a pulley D', provided with an annular groove *d'*, and a tongue D², pivoted as at *d*² in the neck *d* of the block, which neck is connected to the chain C'. This tongue D² allows the block to slide down on the chain C; but the tongue can catch in the chain when any pressure is applied, tending to push the tongue into a link, and thus a tight grip on the cane is secured. One end of the chain C is secured to a pin *e'* in the ears *e* of the sleeve E', which is secured to one side of the hollow bar E, and both the sleeve and the bar are slotted, as at

*e*⁰, to receive the link *c* at the end of the chain C'.

Mounted in the hollow bar E is the sliding rod F, which is provided with two tongues *f* and *f'*, the former tongue being at one end of the bar and the latter tongue being adjacent to the notch *f*² in said bar. This bar is pivotally connected at one end to the link G, which is hinged to the link G', pivoted to the pin *e'*, as shown to the right in Fig. 2.

A tripping-line H is connected, as at *g*, to the link G, so that the bar F may be slid outward in the hollow bar E, allowing the tongues *f* and *f'* to release the links *c* when desired.

The operation of the device is as follows: The bar E, having the links *c* locked therein by means of the tongues *f* and *f'*, is placed in the bottom of the cart or wagon or car, and the chains C and C' are led over the sides of the cart, having the free ends hanging down clear of the sides. The cart is then loaded with the cane or other load, and when fully loaded the end of the chain C is rove through the block and is drawn taut, the tongue D² locking the chain C against slipping back out of the block. This part of the apparatus is used in the field or where the vehicle is loaded. The beam A and hoisting-rope B are located at the factory or place where it is desired to unload the vehicle, and on arriving at this place the load may be removed bodily from the vehicle and piled several loads one on top of the other in reach of a long-boom derrick. To move the load from store pile near derrick, the hooks *a'* are inserted in the free ends of the chain C, and by means of the hoisting-rope B and derrick (not shown) the load is moved to the desired position. When it is desired to detach the load from the slings, by simply pulling on the tripping-line H the tongues *f* and *f'* will simultaneously clear the links *c*, releasing the members C' of the chain slings and allowing the load to fall in a car or on a platform by the carrier.

It will be seen that I have provided an extremely strong, simple, and efficient apparatus for the removing of heavy loads of cane, corn, or the like, which apparatus is not likely to get out of order in spite of the rough usage to which the apparatus is ordinarily subjected, in which the parts do not stretch or wear out in the same degree as with rope slings, and in which there is always a certainty of positive action when desired.

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

1. A hoisting apparatus for cane, corn, or the like, comprising slings, each made of two members, a hollow spacer-bar rigidly attached to one member of said slings, a rod inclosed in said bar, and adapted to be detachably connected to the other member of the slings, and means for sliding said rod in said bar and thus releasing said slings, substantially as described.

2. A hoisting apparatus for cane, corn, or the like, comprising slings, each made of two members, one member of each having a link in its free end, a hollow spacer-bar rigidly attached to the other member of said slings, a rod inclosed in said bar, and provided with tongues adapted to be detachably connected to said links, and means for sliding said rod in said bar and thus releasing said slings, substantially as described.

3. A hoisting apparatus for cane, corn, or the like, comprising slings, each made of two members, a hollow spacer-bar rigidly attached to one member of said slings, a rod inclosed in said bar, and adapted to be detachably connected to the other member of the slings, and links connecting said rod and said bar, and a tripping-line connected to one of said links, for sliding said rod in said bar and thus releasing said slings, substantially as described.

4. A hoisting apparatus for cane, corn, or the like, comprising slings, each made of two members, one member of each having a link in its free end, a hollow spacer-bar rigidly attached to the other member of said slings, a rod inclosed in said bar, and provided with tongues adapted to be detachably connected to the other member of the slings, and links connecting said rod and said bar, and a tripping-line connected to one of said links for sliding said rod in said bar and thus releasing said slings, substantially as described.

5. A hoisting apparatus for cane, corn, or the like, comprising chain slings, each made of two members, one member of each having a link in one end, a block secured to the free

end of the second member and provided with a sheave and a tongue adapted to receive and engage the first member, a hollow spacer-bar rigidly attached to the second member of said slings, a rod inclosed in said bar, and provided with tongues adapted to be detachably connected to said links, and means for sliding said rod in said bar and thus releasing said slings, substantially as described.

6. A hoisting apparatus for cane, corn, or the like, comprising chain slings, each made of two members, one member of each having a link in one end, a block secured to the free end of the second member and provided with a sheave and a tongue adapted to receive and engage the first member, a hollow spacer-bar rigidly attached to the second member of said slings, a rod inclosed in said bar, and provided with tongues adapted to be detachably connected to said links, links connecting said rod and said bar, and a tripping-line connected to one of said links, for sliding said rod in said bar and thus releasing said slings, substantially as described.

7. A hoisting apparatus for cane, corn, or the like, comprising chain slings, each made of two members, one member of each having a link in one end, a block secured to the other member and provided with a pulley having an annular groove therein, and a tongue pivoted in the neck of said block and projecting into said annular groove, the sheave and tongue of said block being adapted to receive and engage the first member of said chain slings, a hollow spacer-bar rigidly attached to the second member of said slings, a rod inclosed in said bar, and provided with tongues adapted to be detachably connected to the other member of the chain slings, and links connecting said rod and said bar, and a tripping-line connected to one of said links for sliding said rod in said bar and thus releasing said slings, substantially as described.

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

JAMES MALLON.

Witnesses:

R. H. DICKS,

JNO. J. FOSTER.