No. 874,553. PATENTED DEC. 24, 1907.

L. H. WILLIAMS.

SAGGAR CRANE.

APPLICATION FILED JUNE 10, 1907.

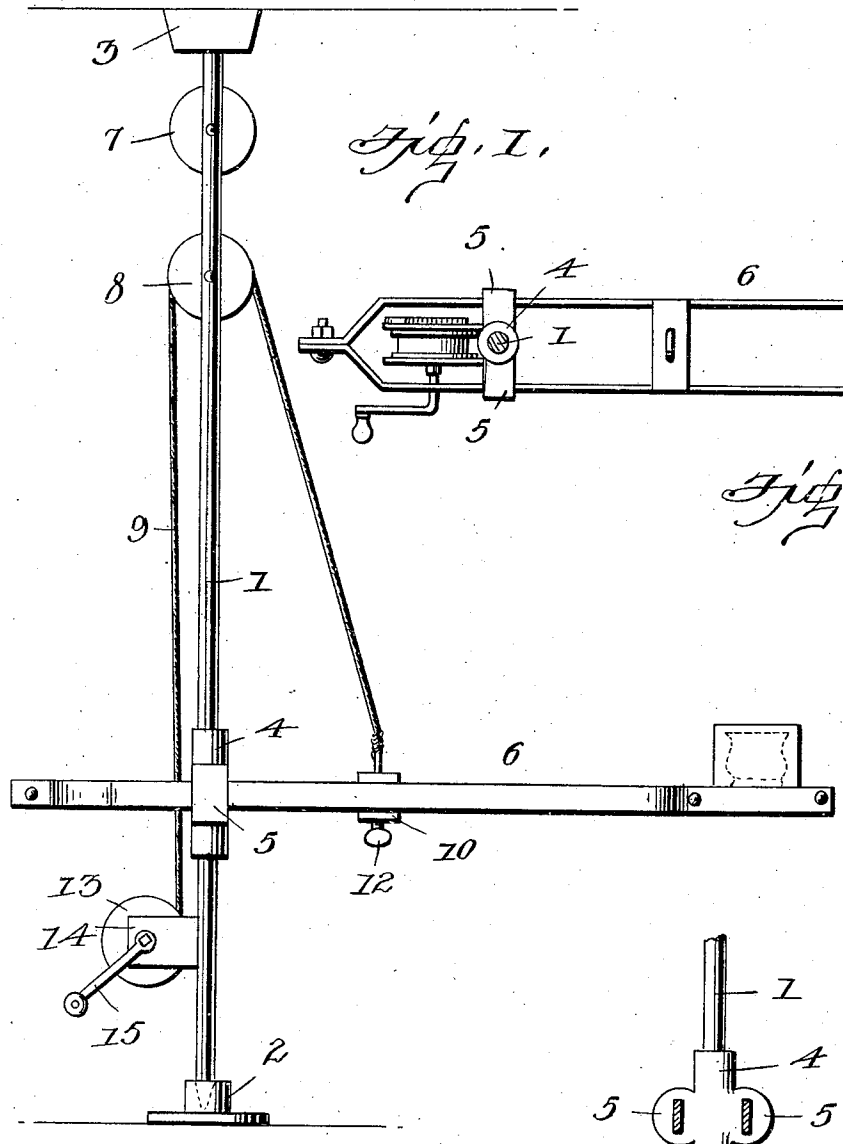

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses

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SAGGAR-CRANE.

No. 874,553. Specification of Letters Patent. Patented Dec. 24, 1907.

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To all whom it may concern:

Be it known that I, LEWIS H. WILLIAMS, a citizen of the United States, residing at Zanesville, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Saggar-Cranes; and I do 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.

This invention relates to improvements in saggar cranes.

The object of the invention is to provide a crane of this character adapted to hoist saggars filled with ware into and out of high or low kilns.

With this object in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side view of a saggar crane constructed in accordance with the invention; Fig. 2 is a horizontal sectional view of the same, taken above the boom; and Fig. 3 is a deatil cross sectional view through the boom adjacent to one side of the standard, showing the manner in which the boom is secured to the sliding supporting sleeve on the standard.

Referring more particularly to the drawings, 1 denotes the crane standard which is here shown in the form of a vertically disposed bar, having a tapered lower end which is seated in a step bearing 2'. The upper end of the standard 1 is revolubly mounted in a head block 3, which is secured to any suitable support or structure.

Slidably mounted on the standard 1 is a boom supporting sleeve 4, on the opposite sides of which are formed horizontally disposed lugs 5, through which are formed horizontally disposed passages to receive the arms or bars of the boom, as shown. The boom, 6, is in the form of two bars which are adapted to be inserted through the hole in the opposite lugs 5 on the sleeve 4, and are bolted or otherwise secured together at their opposite ends. The boom 6 is disposed on the sleeve 4 in such position that one end projects farther beyond the side of the standard than the opposite end, and on said longer end of the boom is placed the sagger containing the ware adapted to be fired in the kiln. Adjacent to the upper end of the standard 1 are journaled upper and lower hoisting pulleys 7 and 8, around one or the other of which is adapted to be passed a hoisting cable, 9, one end of which is connected to a clamp, 10, which is adjustably secured to the boom at any desired position by means of a set screw 12. The opposite end of the hoisting cable 9 is secured to a winding drum or windlass 13, which is mounted in suitable bearing brackets 14, secured to the standard 1 adjacent to its lower end. The winding drum or windlass is provided with a crank handle, 15, or other suitable means by which the same may be operated.

By providing the upper and lower hoisting pulleys 7 and 8, the crane may be used in connection with either high or low kilns, and by means of the adjustable connection for the end of the hoisting cable with the boom, the capacity of the crane may be regulated according to the load to be lifted thereby.

Having described my invention, what I claim as new and desire to secure by Letters-Patent, is:

1. A saggar crane comprising a standard, a hoisting sleeve slidably mounted on said standard, a boom carried by said sleeve, a hoisting cable, means for adjustably connecting said cable to said boom and means to raise or lower said boom and sleeve, substantially as described.

2. A saggar crane comprising a pivoted standard, a hoisting sleeve slidably mounted thereon, a boom secured to said sleeve, a hoisting cable, means to adjustably connect said cable to the boom, and means whereby the cable is wound up to raise the boom and sleeve, substantially as described.

3. A saggar crane comprising a standard, hoisting pulleys revolubly mounted on the upper portion of said standard, a hoisting sleeve slidably mounted on the standard, a boom connected to said sleeve, a clamp ad-

justably connected to said boom, a hoisting cable having one end connected to said clamp and adapted to pass over one or the other of said hoisting pulleys, and a windlass adapted to wind up said cable and thereby raise said sleeve and boom, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LEWIS H. WILLIAMS.

Witnesses:
EDWIN S. GAY,
JOHN W. FEW.