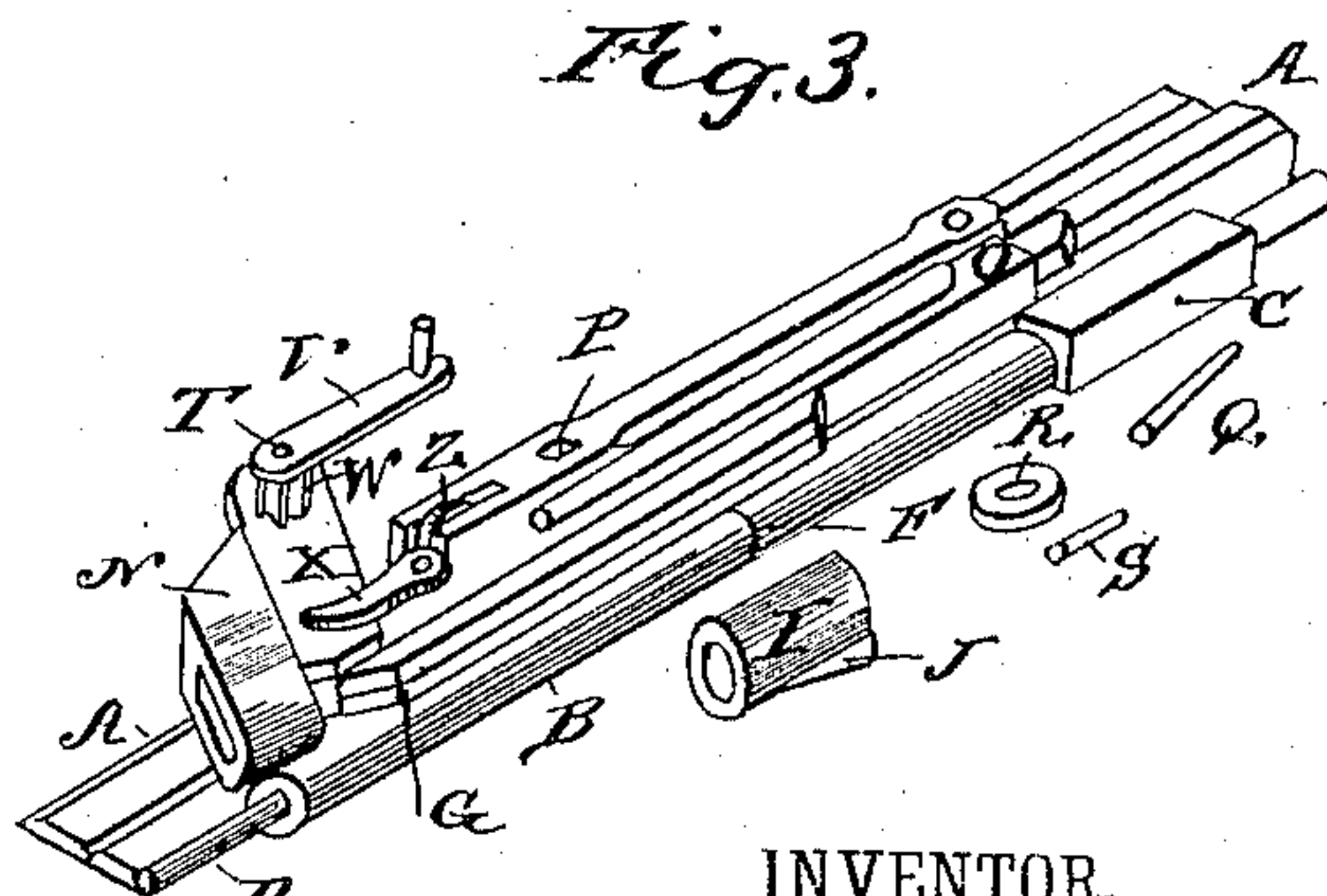


Patented Aug. 18, 1885.



INVENTOR.
Joseph Hollingsworth.
by Louis Bagger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH HOLLINGSWORTH, OF KILBOURNE, LOUISIANA, ASSIGNOR OF ONE-HALF TO SIMON WITKOWSKI, OF SAME PLACE.

CRANE.

SPECIFICATION forming part of Letters Patent No. 324,695, dated August 18, 1885.

Application filed March 23, 1885 (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HOLLINGSWORTH, a citizen of the United States, residing at Kilbourne, in the parish of West Carroll and State of Louisiana, have invented certain new and useful Improvements in Cranes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved crane. Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a view showing the crane knocked down or separated for storage or transportation.

The same letters refer to the same parts in all the figures.

This invention relates to cranes for loading cotton-bales and other heavy goods upon wagons, &c.; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency, which may be readily knocked down, so as to occupy but little room for storage or transportation, and which shall be convenient and easily manipulated.

It further consists in combining with the crane a steelyard, which shall assist in the manipulation of the goods, and by means of which the goods may be readily weighed before being loaded, thereby dispensing with the use of the expensive wagon-scales ordinarily employed for the purpose of ascertaining the weight of the load.

With these ends in view the invention consists in the improved construction and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A A designate a pair of beams crossing each other and mortised together, as shown, so as to form the base, and provided at their point of intersection with a perforation to receive the lower end of the upright post B, which is provided

near its lower end with a shoulder, C, and at its upper end with a cylindrical spindle, D, for the horizontal cap-beam E. The upright post B is provided with mortises F F, to receive the upper ends of diagonal brace-beams G G, the lower ends of which are fitted in mortises H H in the rear ends of the base-beams A A. The upper ends of the brace-beams may be retained in their mortises by means of a collar, I, fitted upon the upright post, and having flanges J J, to receive the upper ends of said brace-beams. The upper end of the upright post is connected with the rear ends of the base-beams by means of brace-rods K K, the upper ends of which may be pivoted between lugs L L of a sleeve or collar, M, which is slipped over the spindle D at the upper end of the upright post. Said sleeve, in addition to forming the means for attachment of the brace-rods, will also serve to form a bearing for the cap-beam E, as will be readily seen by reference to the drawings.

N is a bracket, having a perforation by which it is adjusted or pivoted upon the upright post B, on the shoulder C of which it rests. Firmly secured to said bracket is the lower end of a brace, O, extending diagonally upward to the cap-beam E, in a mortise, P, of which the upper end of the said cap-beam is secured by means of a transverse pin or key, Q. The inner or pivoted end of the cap-beam is secured detachably upon the upright post by means of a washer and pin or key, R and S.

The bracket N is provided with bearings for a shaft, T, having a drum, U, and crank V, whereby it may be operated. Said shaft is also provided with a ratchet-wheel, W, engaging a suitably-arranged dog or pawl, X, in order to prevent back motion. To the drum U is attached one end of a rope, Y, passing over a pulley, Z, at the outer end of the cap-beam, thence through a block, A', and finally to a hook or bail at the outer end of the cap-beam, to which it is attached. It is obvious, however, that additional blocks and tackle may be used, when desired, for the purpose of increasing the lifting power of the crane. Suitably attached to the block A' is a steelyard, B', the end of which terminates in a hook, C',

for the attachment of the load to be lifted and weighed, and which may also be utilized as a lever in manipulating the load.

5 C' is a hook or tongs, also attached to the block A' for the attachment of the load.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The construction is 10 simple, and the device is therefore inexpensive and not liable to get out of order. When the crane is not in use, it may be taken apart or knocked down, as shown in Fig. 3, so as to occupy but little space.

15 I would have it understood that I do not limit myself to the exact construction of details herein described, but reserve to myself the right to all such modifications as may be resorted to without departing from the spirit 20 of my invention.

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

25 1. In a crane, the combination of the base-beams, crossing each other and mortised together, the upright post mounted at the intersection of said base-beams and having a shoulder near its lower end and a spindle at its upper end, the detachable braces and brace- 30 rods, the detachable cap-beam mounted upon the upper end of the upright post, a bracket mounted upon the shoulder of said post, and having an inclined brace connected detachably with the cap-beam, a winding-drum journaled 35 in said bracket, and suitable pulleys and

tackle, all arranged and combined substantially as and for the purpose set forth.

2. The combination of the base-beams, crossing each other and connected detachably, the detachable upright post, the inclined braces 40 fitted in mortises in the said post and in the rear ends of the base-beams, and a flanged collar fitted upon the upright post over the upper ends of the said braces, substantially as and for the purpose set forth. 45

3. The combination of the base-beams, the upright post having a spindle at its upper end, a sleeve fitted upon said spindle and provided with lugs, brace-rods pivoted between said lugs and having their lower ends connected 50 detachably to the rear ends of the base-beams, and the cap-beam journaled upon said sleeve, substantially as and for the purpose herein set forth.

4. The combination, with a crane constructed substantially as herein described, and 55 equipped with the tackle, as set forth, of a steelyard attached to said tackle, for the purpose of ascertaining the weight of the load that is lifted, and to assist as a lever in manipulating the same, substantially as and for the 60 purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOSEPH HOLLINGSWORTH.

Witnesses:

HENRY FELTENBERG,
JOHN B. HOLLAND.