

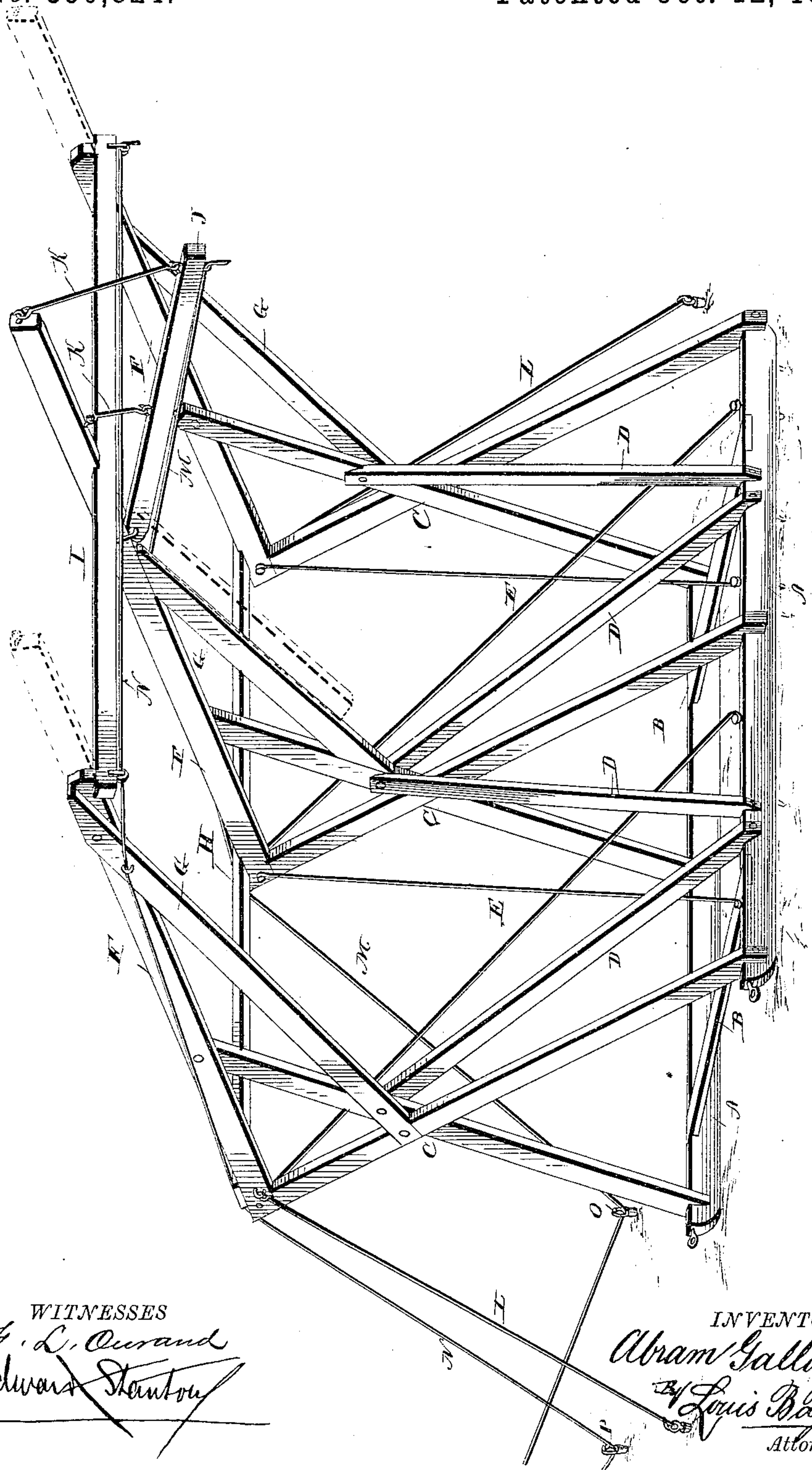
(No Model.)

A. GALLAGHER.

STACKING DERRICK.

No. 350,824.

Patented Oct. 12, 1886.



WITNESSES

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ABRAM GALLAGHER, OF MODE, ILLINOIS.

STACKING-DERRICK.

SPECIFICATION forming part of Letters Patent No. 350,824, dated October 12, 1886.

Application filed June 1, 1886. Serial No. 203,739. (No model.)

To all whom it may concern:

Be it known that I, ABRAM GALLAGHER, a citizen of the United States, and a resident of Mode, in the county of Shelby and State of Illinois, have invented certain new and useful Improvements in Stacking-Derricks; 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

10 which it appertains to make and use the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which my improved derrick is represented by a perspective view.

15 My invention has relation to stacking-derricks; and it consists in the improved construction and combination of parts, as will be hereinafter fully described, and pointed out in the claims.

20 In the accompanying drawing letters are used to indicate the several parts, A representing the runners of the sled; B, the benches; C, the X-shaped trusses, the front upper prongs of which are longer than the rear ones;

25 D, braces from the front part of the trusses to the front runner of the sled; E, stays from the back part of the trusses to said runner; F, top rails, one extending in an inclined manner across the upper end of each truss and projecting from the front thereof, the middle rail

30 projecting the farthest; G, braces from said rails to said trusses; H, a tie-beam at the back ends of said rails; I, a beam connected to the under sides of the front ends of said rails,

35 which, while it acts as a tie-beam, also forms a runway for a hay-elevator, or serves as a means for attachment of such runway; J, a yard hinged to the middle top rail, to be used as a runway or serve as a means for attachment of one; K, links for supporting the outer

40 end and middle of said yard; L, guys attached to the rear upper corners of the derrick; M, a rope for running the elevator when a stack is to be formed, and N one for running the

45 elevator when a rick is to be formed.

The runners are provided at each end with means for hitching a team to them for the purpose of hauling the derrick from place to place.

50 When a stack is to be formed, the elevator

is attached to the yard while in the position represented in full lines, the rope M passing from the elevator, which is lowered from the outer end of the yard, back over the derrick, down through a pulley, O, secured to the 55 ground, and then to the horse or other means used for running said elevator.

When the derrick is to be used in forming a rick, the links are detached from the yard and the latter swung down and secured to the 60 truss, out of the way of the elevator. (See dotted position of said yard.) Then the rope N is passed from the elevator, which is lowered from one end of the front tie-beam, along under said beam to its opposite end, there 65 through direction-changing pulleys back over the derrick, down through a pulley, P, secured to the ground, and then to the means employed in running the elevator.

If it is desired to use the derrick wholly for 70 stacking, the end trusses with their braces and stays and the tie-beams may be dispensed with. On the other hand, if the derrick is to be used exclusively for building ricks, the yard and its links may be dispensed with and the mid- 75 dle rail made no longer than the end ones; or the end ones may be made as long as the middle one, and the projecting end of each provided with an eyebolt or a hook, (see dotted lines,) to which a pulley may be attached, and 80 the simple horse-fork and rope used on first one rail, then another, till the rick is finished.

By passing the hoisting-ropes back over the derrick to pulleys secured to the ground, the 85 necessity of staking the derrick to the ground is obviated, since by such arrangement the weight of the load on the elevator is borne equally by the opposite sides of the derrick. The guys shown are merely to keep the apparatus from blowing over when not in use. 90

A stacking or ricking derrick constructed as herein described is light, strong, durable, and easily moved about. This last feature is a most important one, since through it much 95 time is saved which has heretofore been spent in handling derricks that must be taken to pieces every time they are moved.

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

1. In a stacking-derrick, the combination of a sled, **X**-shaped trusses having one upper prong of each longer than the other, braces and stays from said trusses to said sled, top rails, braces from said rails to said trusses, a tie-beam across one end of said rails and adapted to act as or form a means of attachment for a runway, and means for operating an elevator upon said runway.
2. In a stacking-derrick, the combination of a sled, **X**-shaped trusses, braces and stays, inclined top rails, the middle one of which is longer than the others, a yard hinged and linked to said rail and adapted to act as or form a means of attachment for a runway, and means for operating an elevator upon said runway.
3. In a stacking-derrick, the combination of a sled, an **X**-shaped truss, braces and stays from said truss to said sled, an inclined top rail, a yard secured in a horizontal position to

said rail and adapted to act as a runway, and means for operating an elevator upon said runway.

4. In a stacking-derrick, the combination of a sled, **X**-shaped trusses, braces from one of the runners of said sled to the front part of said trusses, stays from said runner to the back part of said trusses, top rails projecting beyond the front prongs of said trusses, braces from said rails to the trusses, hooks secured to the projecting ends of said rails, tie-beams, guys, and means for operating a horse-fork from each of said hooks.

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

ABRAM GALLAGHER.

Witnesses:

JOHN W. KNOX,
W. F. GEREN.