

(No Model.)

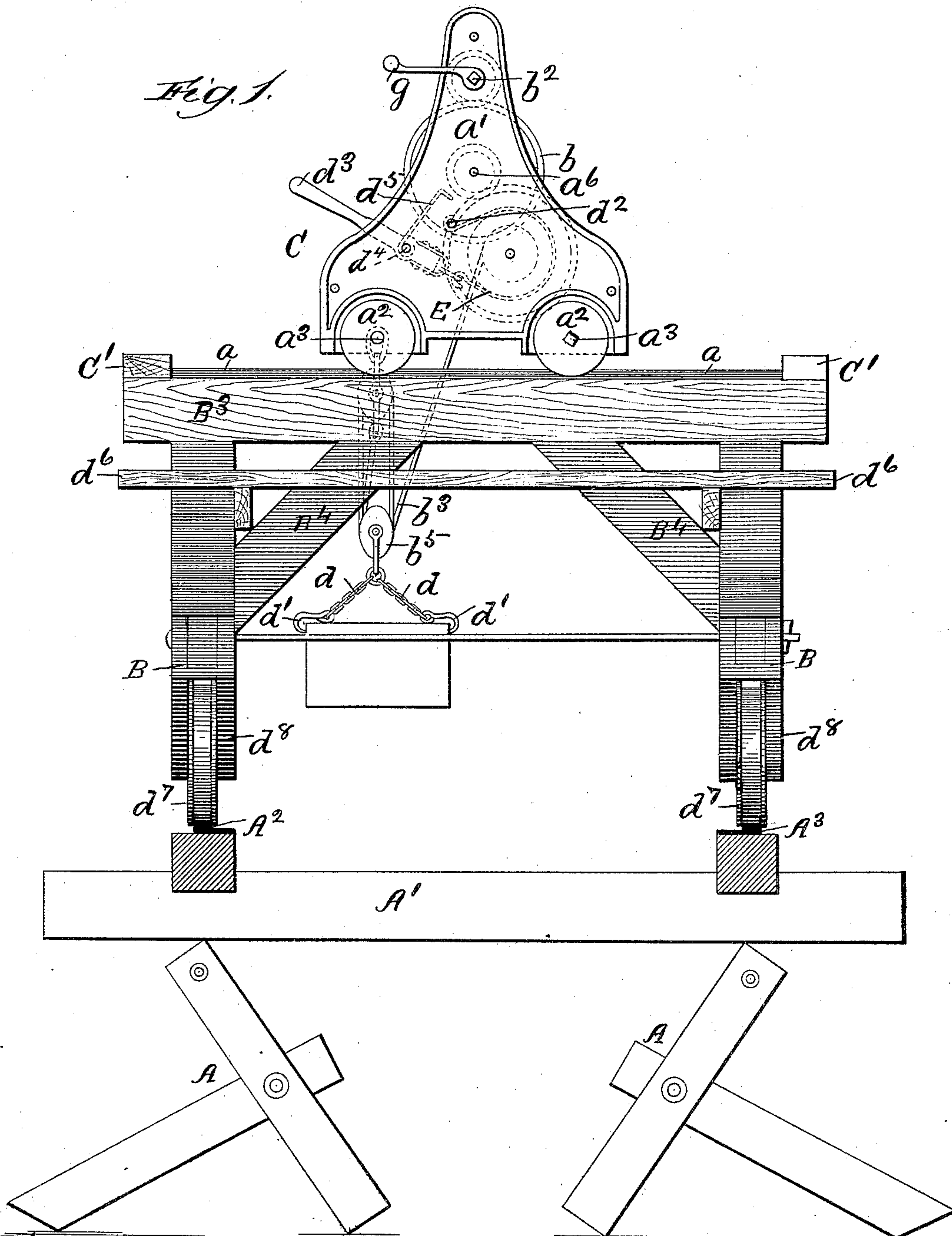
2 Sheets—Sheet 1.

J. W. PETERSON.

STONE LIFTING AND CARRYING MACHINE.

No. 422,826.

Patented Mar. 4, 1890.



Witnesses:

*Chas. E. Gaylord,
L. W. Freeman.*

Inventor:

*J. W. Peterson.
By L. B. Coupland & Co
Attys.*

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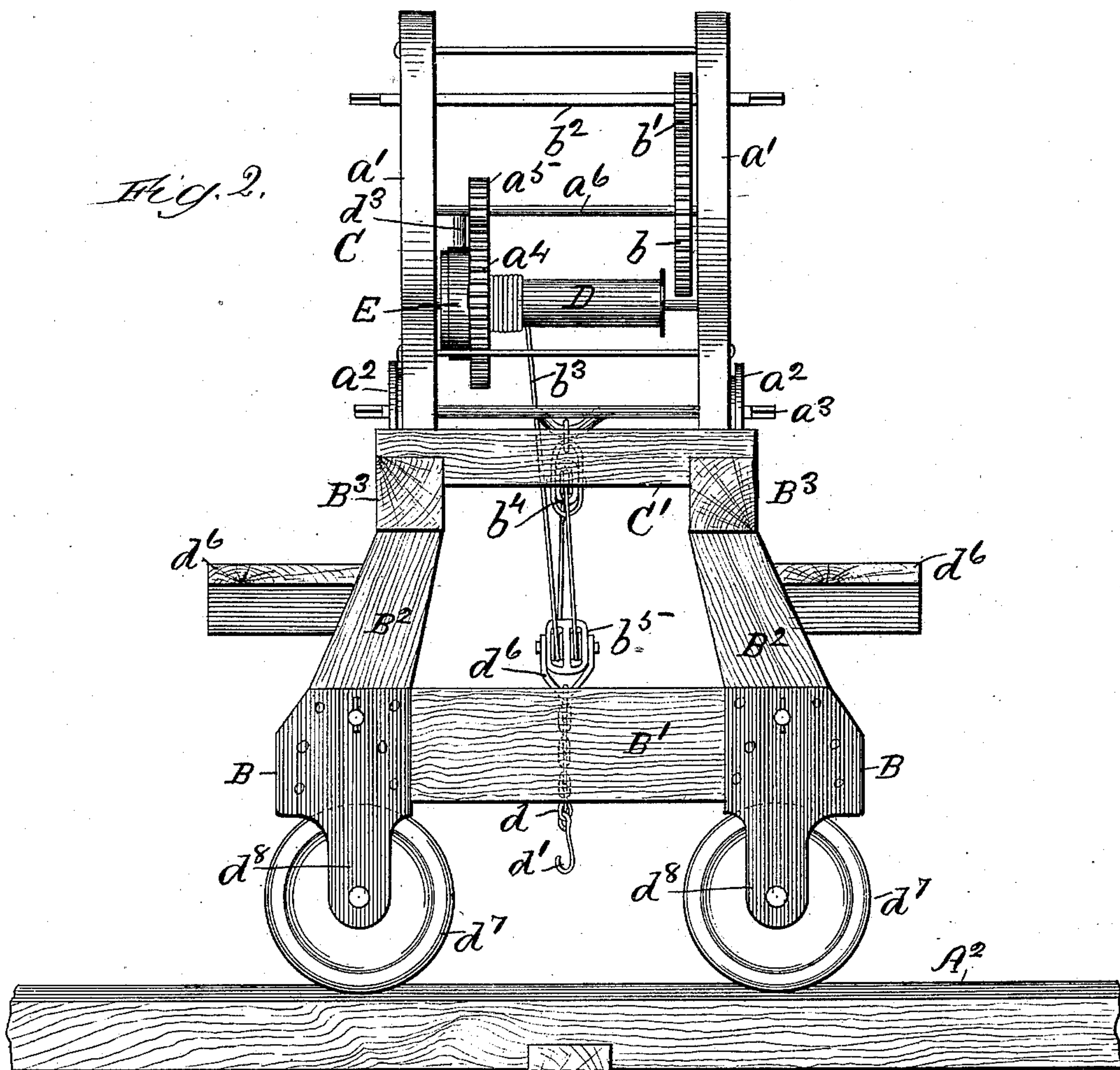
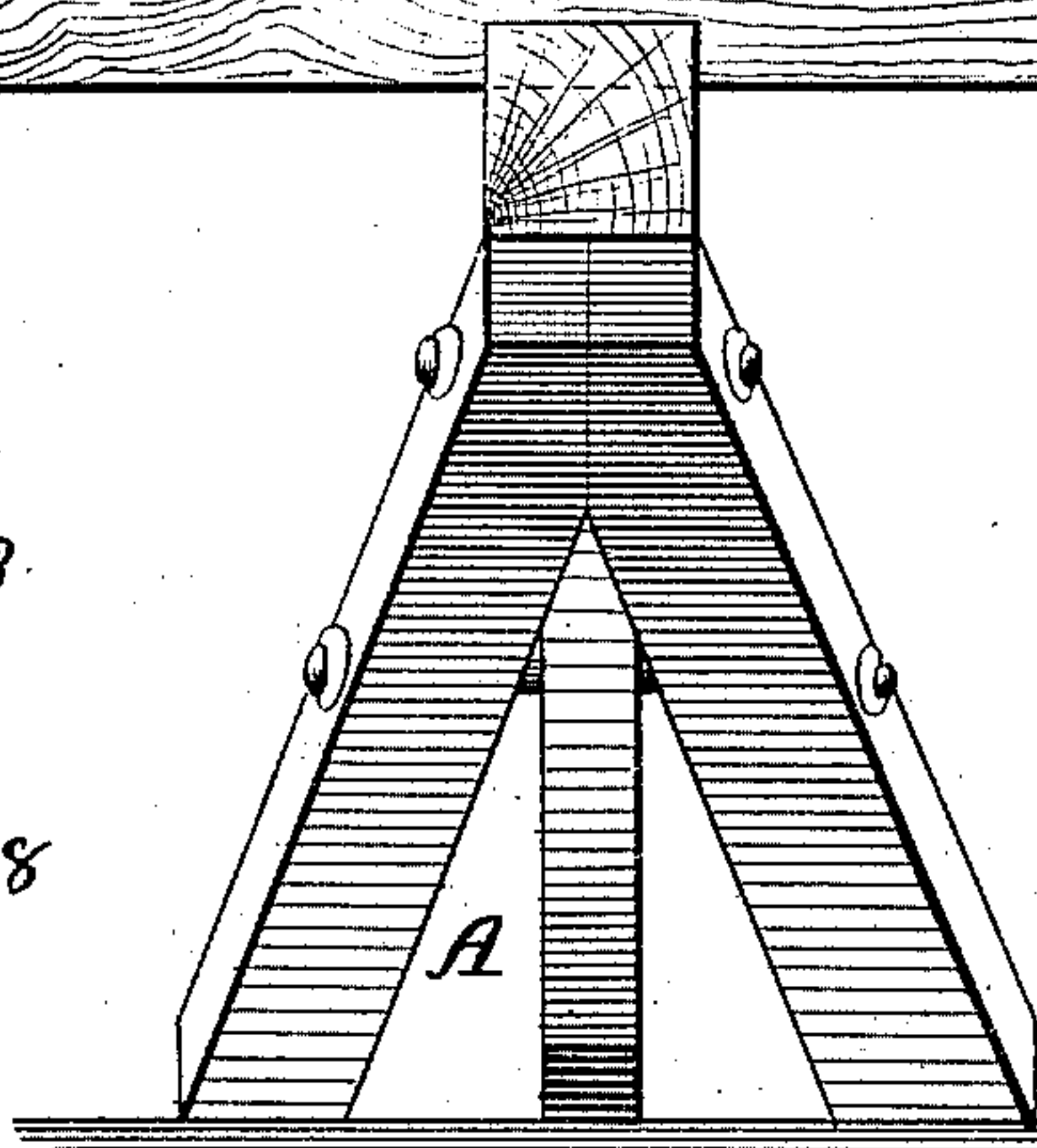
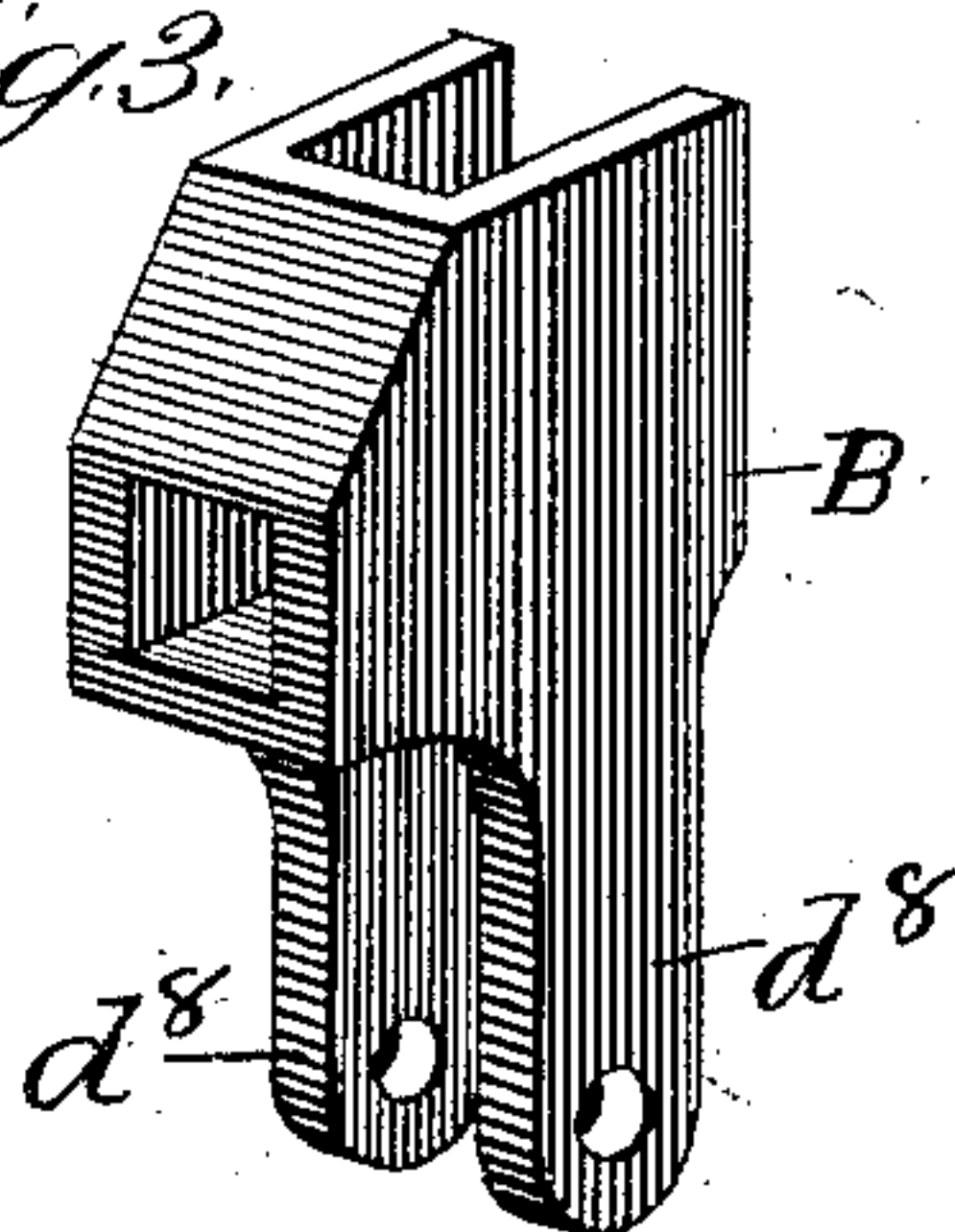


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN W. PETERSON, OF CHICAGO, ILLINOIS.

STONE LIFTING AND CARRYING MACHINE.

SPECIFICATION forming part of Letters Patent No. 422,826, dated March 4, 1890.

Application filed March 25, 1889. Serial No. 304,644. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. PETERSON, a subject of the King of Sweden, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Stone Lifting and Carrying Machine, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The object of this invention is to provide a machine to be used in lifting, moving, and laying the foundation-stones of a building structure.

Figure 1 is an end elevation of a machine embodying my improved features; Fig. 2, a side elevation, and Fig. 3 a detached detail.

Referring to the drawings, A represents the trestle-work supporting the track-timbers A', and A² A³ the track-rails.

The truck-frame consists of the mortised corner-pieces B, connected on the sides by the horizontal framing-timbers B', mortised into the inner faces of the pieces B, the corner-posts B² mortised into the upper ends of the pieces B and supporting the cross-bars B³ on their upper ends and the diagonal braces B⁴. The cross-bars B³ are provided with track-rails a, on which the carriage C travels. The top side bars C' prevent the carriage C from running off of the ends of the track.

The carriage C consists of the two end plates a' a', between which the lifting mechanism is located and supported, and the carriage-wheels a², mounted on the axles a³, journaled in the lower edge of the end plates.

The winding-drum D is journaled in the end plates of the carriage and has the gear-wheel a⁴ mounted on one end thereof. This gear-wheel engages with the pinion a⁵, mounted on one end of the counter-shaft a⁶, located above the winding-drum. A gear-wheel b is mounted on the opposite end of the counter-shaft, which in turn engages with the pinion b', mounted on the hand or crank shaft b². One end of the hoisting rope or cable b³ is secured to the winding-drum and is then rove through the tackle-blocks b⁴ b⁵, the opposite end being secured to the upper block. The clevis b⁶ is secured to the lower block and re-

ceives the upper ends of the chains d d, the lower ends of which are provided with grappling-hooks d' d', engaging the object to be lifted, as shown in Fig. 1.

The brake-strap E encircles a part of the winding-drum and has one end secured to the pin d², inserted in one side of the carriage, and the opposite end secured to the inner end of the hand-brake lever d³, pivoted on the rod d⁴, by which arrangement the operation of lowering the stone is controlled. The pawl d⁵ serves to lock the mechanism against a back movement.

Each end of the machine is provided with a platform d⁶ for the convenience of the workmen in operating the machine.

The truck-wheels d⁷ are journaled in the lugs d⁸, formed on and projecting downwardly from the corner-pieces B, a detached view of one being given in Fig. 3.

In operation the track will be laid along the line of the foundation and supported on suitable trestle-work. The stones may be picked up at the point on the outside of the building where they are unloaded, and easily and quickly transported to the place where they are to be laid in the wall, and by means of the traveling carriage on the truck-frame the stone can be conveniently placed in the exact spot and quickly raised again should it not be exactly level at first. By rotating the hand-shaft, by means of the handle g, motion is transmitted to the winding-drum through the system of gear-wheels described.

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

1. In a stone-lifting machine, the truck-frame consisting of the mortised corner-pieces B, provided with downwardly-projecting lugs d⁸, between which the truck-wheels are journaled, the horizontal framing-timbers B', the corner-post B², mortised in said corner-pieces, the cross-bars B³, and the diagonal braces B⁴, substantially as set forth.

2. In a stone-lifting-machine, the combination of the main or truck frame, the traveling carriage supported thereon and consisting of the two end plates mounted on wheels, the winding-drum journaled in and located between said end plates, the gear-wheel mount-

ed on said drum, the counter-shaft, the pin-
ion mounted on one end thereof and engag-
ing with the gear-wheel on the winding-drum,
the gear-wheel mounted on the opposite end
5 of said counter-shaft, the hand or crank shaft,
the pinion mounted thereon and engaging
with the gear-wheel on the counter-shaft, the

winding-rope, the hoisting-tackle, the brake-
strap, and brake-lever, all constructed and ar-
ranged to operate substantially as set forth.

JOHN W. PETERSON.

Witnesses:

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L. B. COUPLAND.