

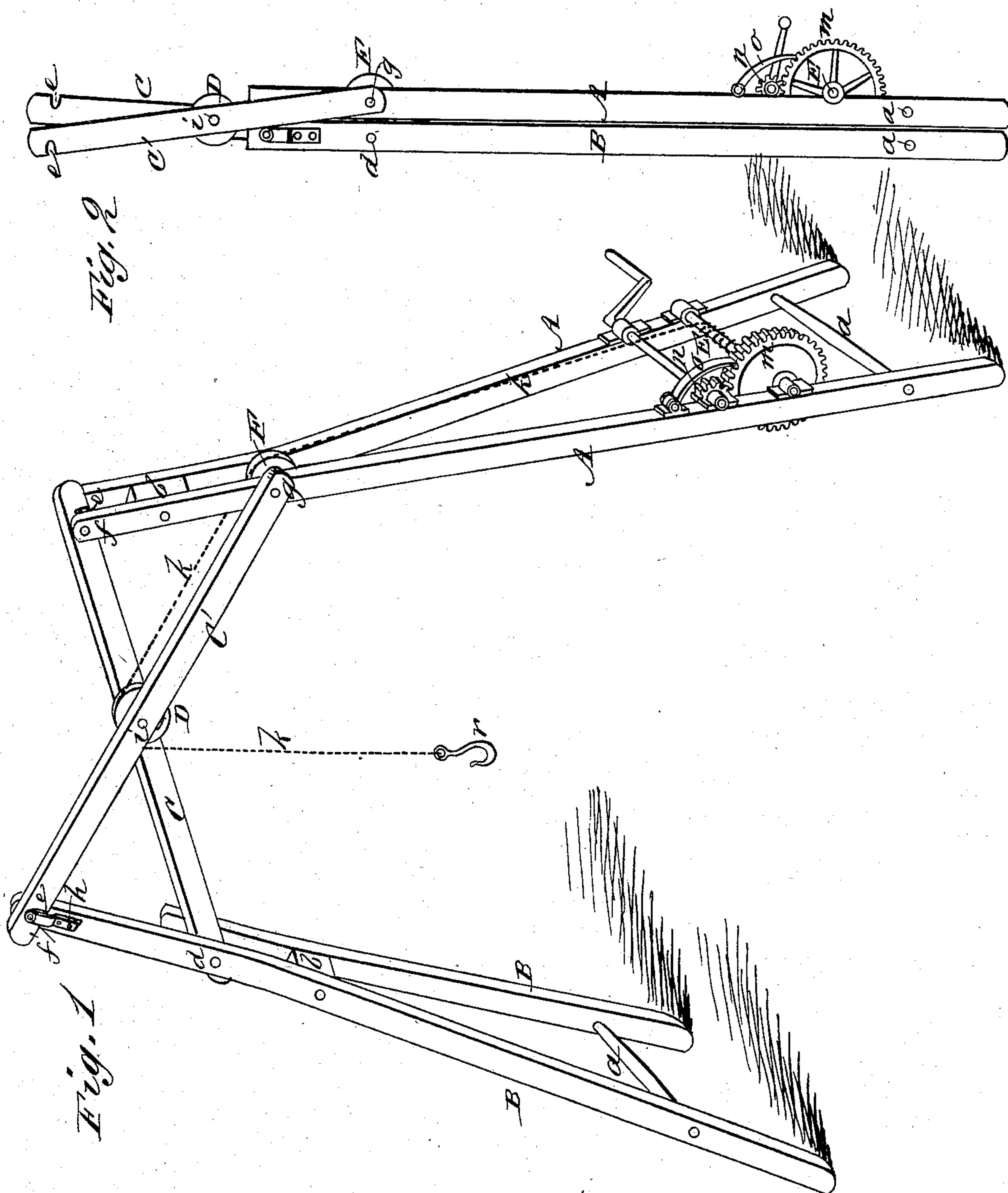
(No Model.)

J. P. EDMONDS.

DERRICK.

No. 263,151.

Patented Aug. 22, 1882.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

JOHN P. EDMONDS, OF JACKSBOROUGH, TENNESSEE, ASSIGNOR OF ONE-HALF TO W. C. HALL AND A. LOYD, OF SAME PLACE.

DERRICK.

SPECIFICATION forming part of Letters Patent No. 263,151, dated August 22, 1882.

Application filed July 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. EDMONDS, of Jacksborough, in the county of Campbell and State of Tennessee, have invented a new and useful Improvement in Derricks, of which the following is a full, clear, and exact description.

This invention consists in a portable folding derrick of novel construction, substantially as hereinafter described.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 represents a view in perspective of my improved derrick when unfolded or extended, ready for use; and Fig. 2, a side view of the same when folded or closed.

A A and B B indicate the legs of the derrick, constructed in pairs, and with the legs in each pair diverging downwardly from each other, and suitably connected by stays *a a* and blocks *b b* to give them the necessary strength and broad or firm support on the ground.

Pivoted, as at *d*, to or within the upper portion of the legs B B is an inner brace, C, which, when the derrick is extended, engages by a jaw or notch, *e*, in the lower portion of its opposite end with a bolt, *f*, uniting the upper ends of the legs A A; and pivoted to the outside of one of the legs A, as at *g*, is a similar outer brace, C', having a jaw or notch, *e*, which engages with a bolt, *f'*, in a bracket, *h*, on the outside of the upper portion of one of the legs B. These braces C C' are pivoted together by a bolt, *i*, where they cross each other, and carry in between them on said bolt a pulley, D, for the hoisting-rope K.

Arranged between the legs A A, at a convenient distance from the ground, is a windlass, E, on and from which said rope is wound and unwound, said windlass being actuated by a gear-wheel, *m*, and pinion *n*, and having a pawl, *o*, which is thrown into lock with the wheel *m* when it is required to hold the load at any desired elevation. The rope K passes from the windlass E over a pulley, F, arranged between the legs A A, on the joint-pin *g*, and from thence

over the central lifting-pulley, D, and is provided at its lower or free end with a lifting-hook, *r*, or other suitable attachment, to which may be hitched other ropes or appliances for carrying and securing the load, according to the work to be done. Thus, when the derrick is used for taking off or putting on wagon-beds the main or hoisting rope K may be connected with a series of ropes having hooks on their ends. For loading and unloading logs and various articles of merchandise, slings or different attachments may be used.

The derrick is not restricted to any particular use, but it admits of a wagon passing readily in between it when necessary.

The hooking braces C C' hold the legs A A and B B firmly at their set distance apart when the derrick is unfolded and extended, as shown in Fig. 1; but when said braces are disengaged from the bolts *f f'*, onto or over which they hook, the derrick may be closely folded, and is readily portable, or may be stowed away in a small space or compass by the shutting of the one pair of legs, A A, against the other pair of legs, B B, and the upright position which the braces C C' then assume, as shown in Fig. 2 of the drawings.

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

1. The combination, with the derrick-legs A A and B B, of the hooking braces C C', pivoted respectively to said legs A and B, the bolts *f f'*, with and from which said braces engage and disengage, the pivot *i*, uniting said braces intermediately of their length, and the hoisting-pulley D, essentially as shown and described.

2. The combination of the windlass E, the derrick-legs A A and B B, the hooking and crossing braces C C', united by an intermediate pivot, *i'*, the pivots *d g*, the bolts *f f'*, and the pulleys F D, all arranged for operation in relation with each other substantially as and for the purposes herein set forth.

JNO. P. EDMONDS.

Witnesses:

JAMES H. FORRESTER,
LEWIS BOWMAN.