

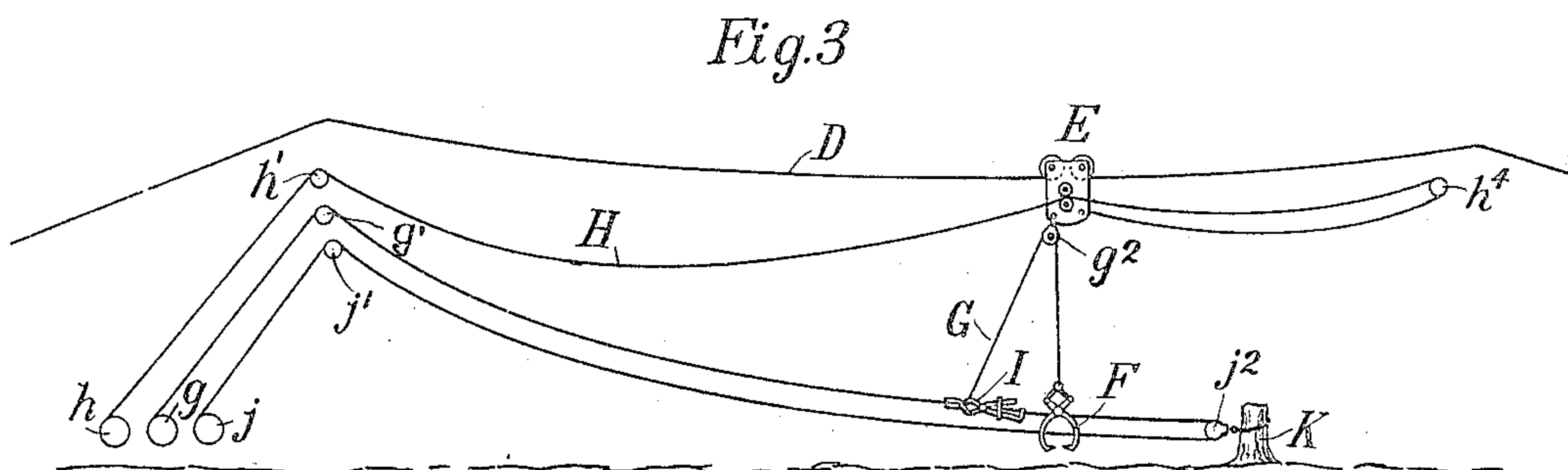
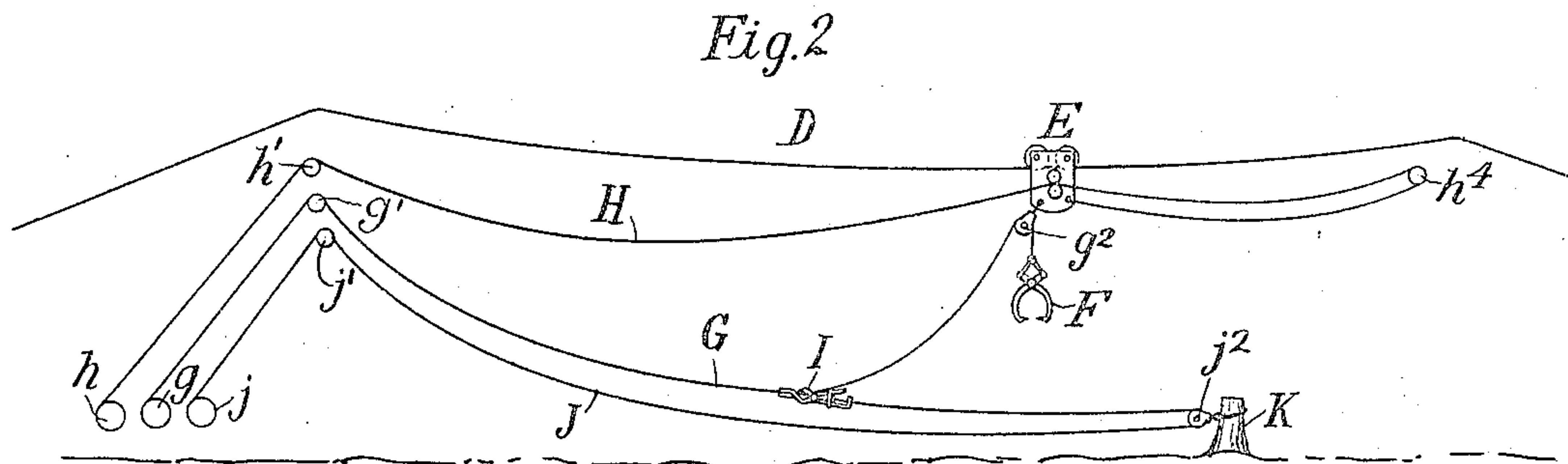
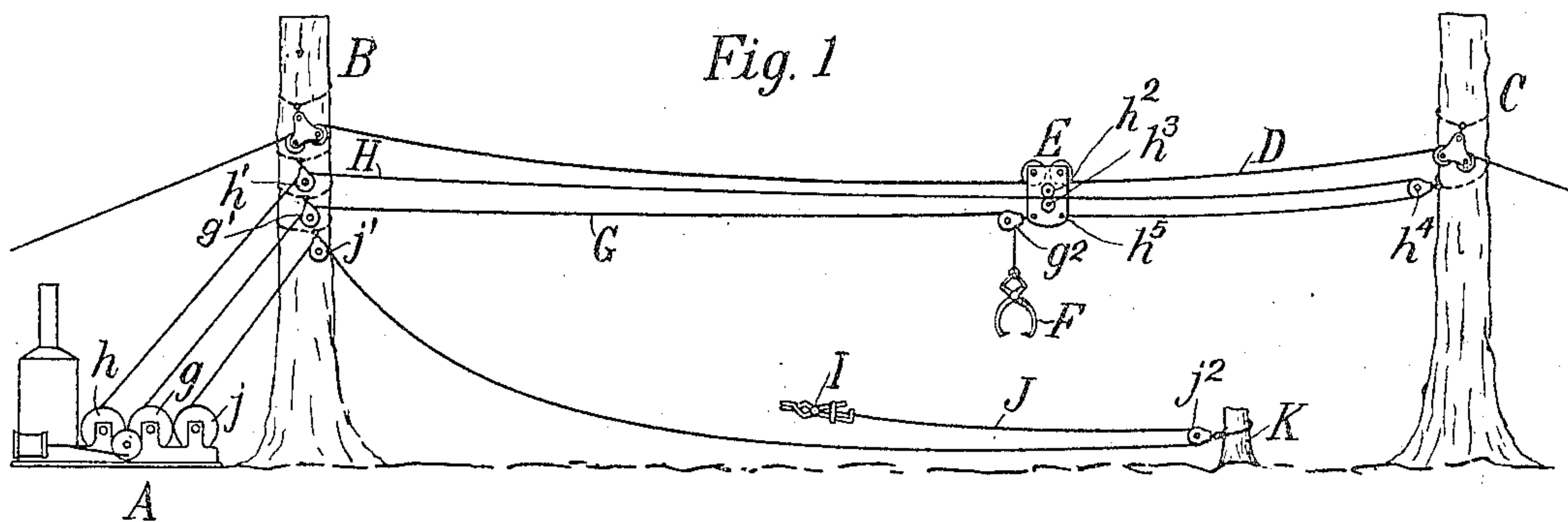
No. 808,858.

PATENTED JAN. 2, 1906.

T. S. MILLER & J. H. DICKINSON.

CONVEYER.

APPLICATION FILED FEB. 29, 1904.



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS SPENCER MILLER, OF SOUTH ORANGE, AND JOSEPH H. DICKINSON, OF MONTCLAIR, NEW JERSEY.

CONVEYER.

No. 808,858.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed February 29, 1904. Serial No. 195,755.

To all whom it may concern:

Be it known that we, THOMAS SPENCER MILLER, a resident of South Orange, and JOSEPH H. DICKINSON, a resident of Montclair, Essex county, and State of New Jersey, citizens of the United States, have invented a new and Improved Conveyer, of which the following is a specification.

This invention relates to the general class of apparatus which is the subject of our Patent No. 688,475, dated December 10, 1901, in which a grip actuated by an outhaul-rope is adapted to engage the load-pulling rope and draw it outwardly.

In the accompanying drawings, Figures 1, 2, and 3 represent our present apparatus in three positions.

In all the figures, A is a friction-drum engine.

B is the head-support.

C is the tail-support.

D is the cable upon which the carriage E runs.

F represents the tongs or other receptacle for the load.

G is the load-pulling rope, actuated by the drum *g* and extending over the sheave *g'* at the head-support and the sheave *g''* on the carriage.

H is the carriage-traversing rope or traction-rope actuated by the rope-drum *h* and extending over the head-sheave *h'* between the carriage-sheaves *h''* *h'''*, around the tail-sheave *h''''*, and back again to the carriage, to which it is secured at *h''''''*.

I is the grip actuated by the outhaul-rope J, which passes over the sheave *j'* at the head-support. This grip may be of any suitable form, being shown in the drawings as a clamp.

K is an anchorage located at or near the ground and at one side of the cable, and *j''* is a sheave-block by which the outhaul-rope J is connected with said anchorage.

The operation is as follows: Starting with the tongs elevated and the ropes in the position of Fig. 1, the ropes are slacked from the engine-drums until the rope G is within reach of the ground. Thereupon the grip I is clamped thereto, as shown in Fig. 2, at a

point sufficiently far back from the carriage-sheave *b''*. Then the outhaul-rope J is hauled in by the engine-drum *j* to the position shown in Fig. 3, which brings the tongs to the ground, where they are engaged with the log. Then the grip is cast off and the log is sufficiently hoisted. Then the carriage is moved so as to haul the log to the desired position by the coöperation of the engine-drums *g* and *h*.

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

1. In a conveying device, in combination, a load-pulling rope, a carriage, carriage-traversing means, a stationary anchorage, an outhaul-rope actuator and an outhaul-rope extension from said actuator to said anchorage and thence to a point of attachment with the load-pulling rope back of said carriage.

2. In a conveying device, in combination, a load-pulling rope, a carriage, carriage-traversing means, a clamp for detachably securing said load-pulling rope back of the carriage, and an outhaul-rope extending from said clamp downwardly and an outhaul-rope actuator.

3. In a conveying device, in combination, a load-pulling rope, a carriage, carriage-traversing means, an outhaul-rope extending from a point of said load-pulling rope back of the carriage downwardly and an outhaul-rope actuator.

4. In a conveying device, in combination, a load-pulling rope, a carriage, carriage-traversing means, an outhaul-rope, a clamp detachably securing said outhaul-rope to said load-pulling rope back of the carriage, a sheave supported independently of the carriage over which said outhaul-rope extends and an outhaul-rope actuator.

In witness whereof we have hereunto signed our names in the presence of two subscribing witnesses.

THOMAS SPENCER MILLER.

JOSEPH H. DICKINSON.

Witnesses:

J. J. DERRICK,

C. B. CROOK.