

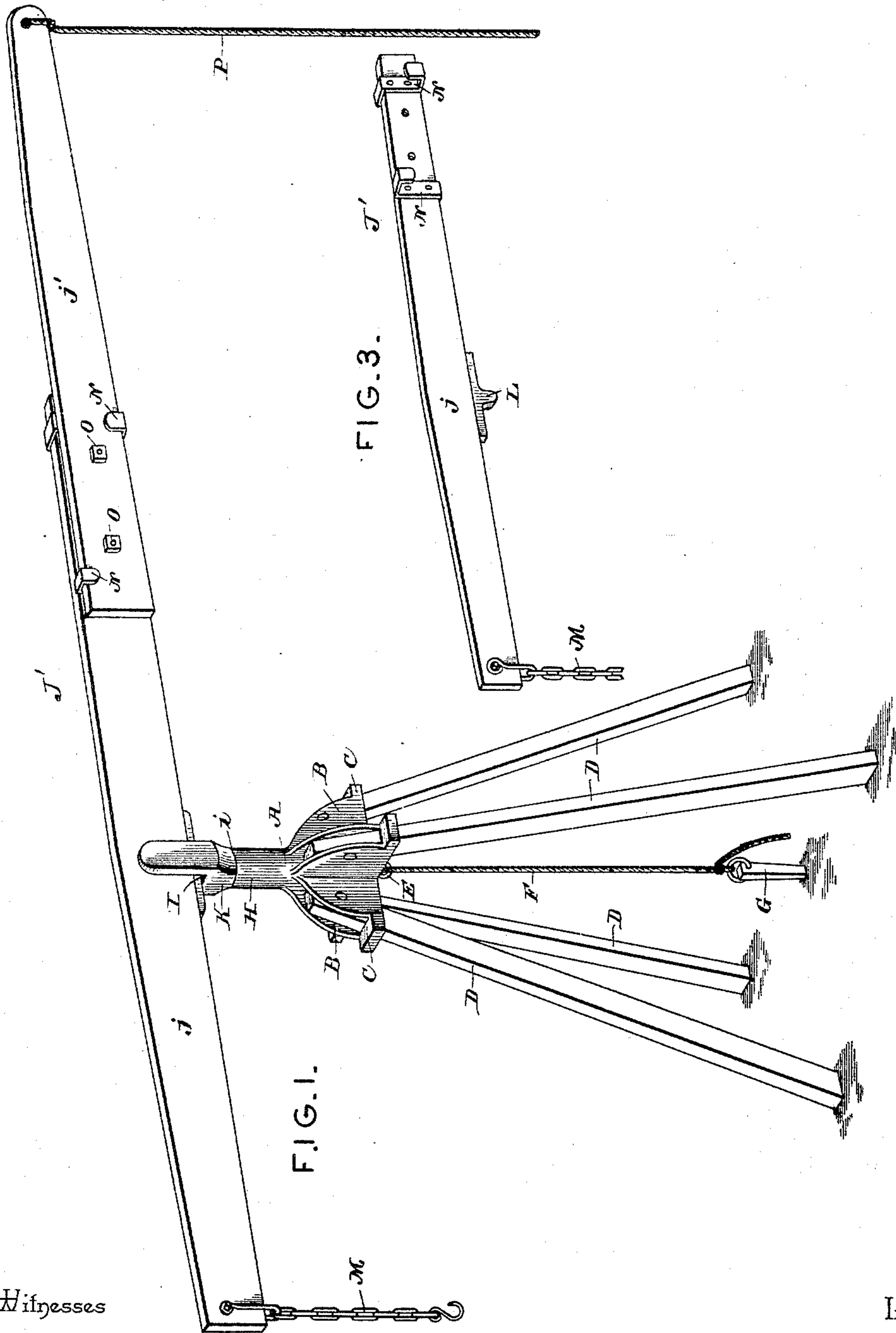
(No Model.)

2 Sheets—Sheet 1.

W. W. WHITE.
DERRICK.

No. 485,756.

Patented Nov. 8, 1892.



Witnesses

Harry L. Amer.
L. P. Walhaupter.

Inventor

W. W. White.

By his Attorneys,

Chas. Snow & Co.

(No Model.)

2 Sheets—Sheet 2.

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FIG. 2.

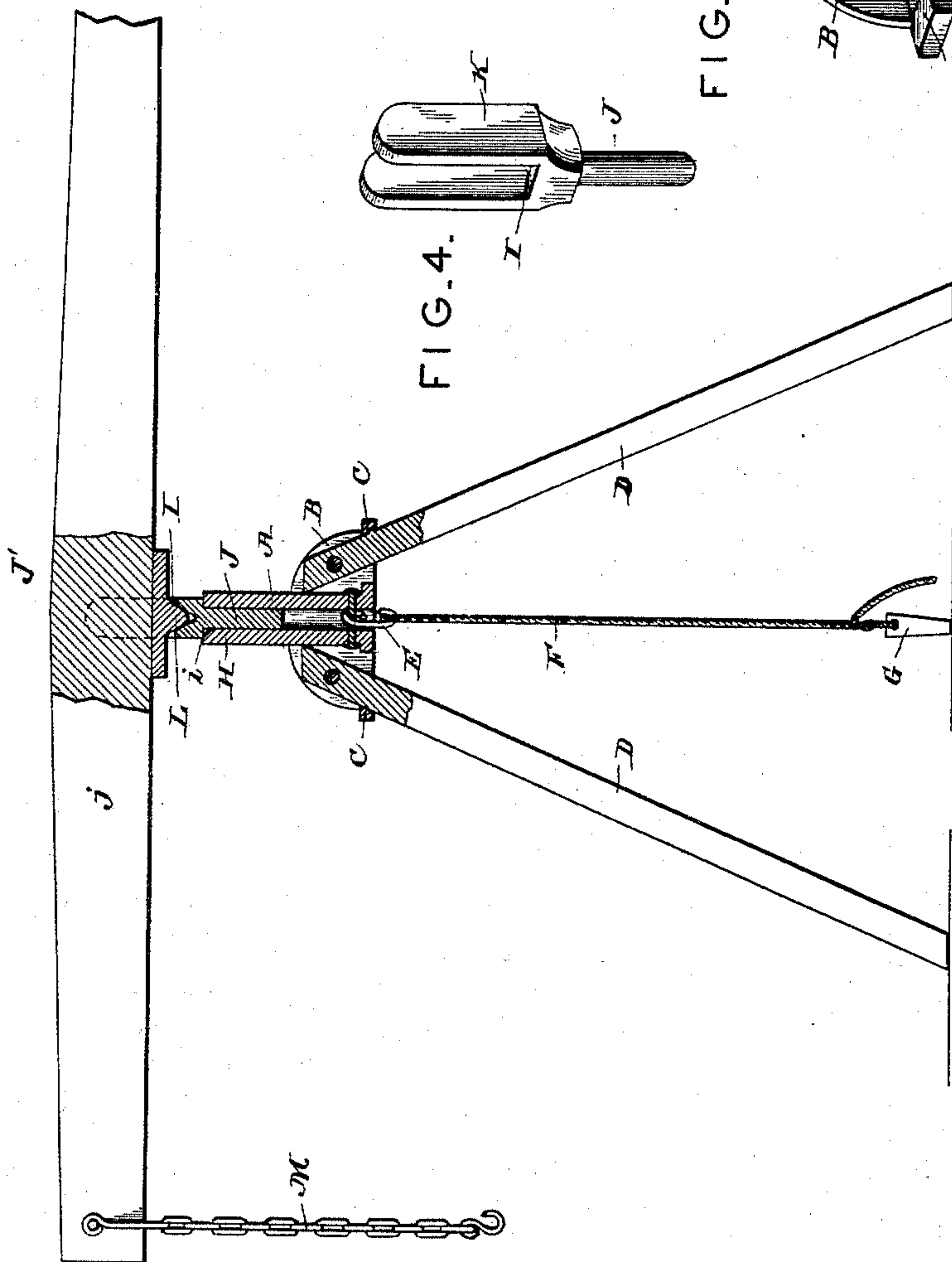


FIG. 4.

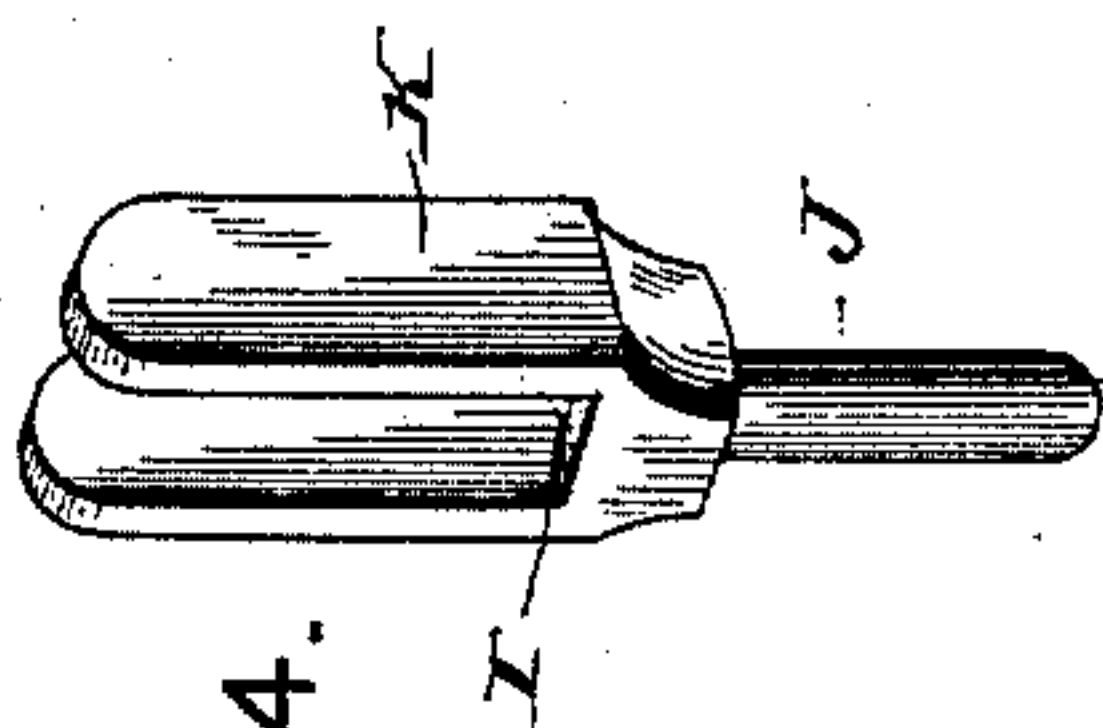
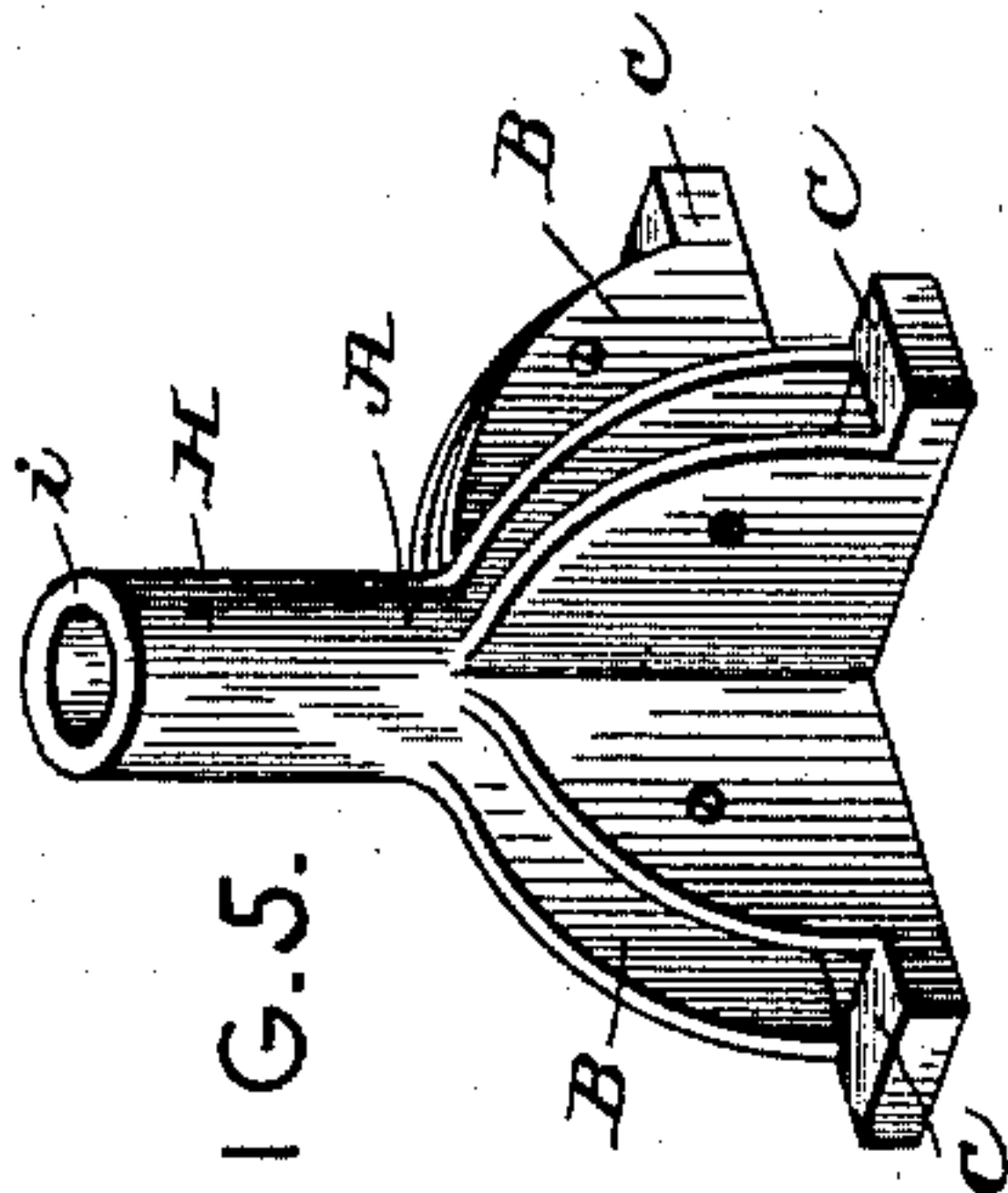


FIG. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM W. WHITE, OF FOREST CITY, ILLINOIS.

DERRICK.

SPECIFICATION forming part of Letters Patent No. 485,756, dated November 8, 1892.

Application filed April 15, 1892. Serial No. 429,356. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. WHITE, a citizen of the United States, residing at Forest City, in the county of Mason and State of Illinois, have invented a new and useful Derrick, of which the following is a specification.

This invention relates to derricks; and it has for its object to provide an improved derrick or lifting device which is particularly adapted for use in lifting objects and weights and swinging the same into vehicles, and is also well adapted for use in handling hogs in butchering, scalding, and hanging the same, and for a variety of similar purposes.

To this end it is the object of my invention to improve a portable derrick which occupies but a comparatively small space and can be readily folded up and carried from one place to another and equally as easily set up again.

With these and many other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a portable derrick constructed in accordance with this invention. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a detail in perspective of the main lever detached from its support. Fig. 4 is a similar view of the forked lever-rest. Fig. 5 is a similar view of the supporting-head.

Referring to the accompanying drawings, A represents the supporting-head of the derrick having a series of radially-extending bifurcated lugs B, connected at their outer ends by the transverse portion forming stops C, which form stops for the supporting-legs D, pivoted at their upper ends within the said bifurcated lugs and adapted to be outspread when the derrick is in use, so as to support the same firmly in position, said legs being limited by said stops, as noted, to relieve the same from the strain on their pivots incident to their outward movement, and it will also be readily seen that when desired the said legs may be folded, so that the support may be transported from place to place. The said head A is further provided upon the under side with the anchoring-hook E, to which is con-

nected the central anchoring chain or rope F, which when the legs are outspread is secured to a stake G, driven in the ground between said legs, so that the entire support is held immovably and rigidly in position. The said head A is provided with an upwardly-extending neck H, having the socket I, which receives the integral pivot-shank J of the forked lever-rest K, which is thus pivotally mounted upon said head, so that it may be moved in any direction. The said forked rest K is provided in the base thereof with the V-shaped bearing-recess I, within which is adapted to work the fulcrum of the sectional lever J'. The said lever J' comprises the opposite members j and j', respectively, the main lever-section j being provided with the fulcrum-plate K, secured at a suitable point to the under side of the same and provided with the pointed V-shaped fulcrum-lug L, which fits and works within the V-shaped bearing-recess I of the forked rest, said fulcrum-lug having its apex somewhat larger than that of the recess in which it works in order to provide for a perfect non-binding bearing. The forked rest embraces or straddles the main lever-section j, which works between the opposite arms of the same and is thus prevented from becoming displaced either while lifting an object or swinging the same in any direction. To one end of the main lever-section j is secured the lifting-chain M, which may be connected with the object to be raised, while to and near the opposite end of the main lever-section is secured the oppositely-disposed clip-hooks N, which receive the upper and under sides, respectively, of the outer and supplemental lever-section j', which may be additionally clamped to the main lever-section by means of the securing-bolts O. In operation the extreme end of the sectional lever or the rope P, secured to said end, is grasped to lift the object desired, after which it may be readily moved in any direction in a similar manner to ordinary derricks. When it is desired to move the derrick from one place to the other, the sectional lever is disassembled and removed from the lever-rest, while the legs from the supporting-head are folded up and the whole apparatus readily moved.

The construction, operation, and many advantages of the herein-described derrick are

now thought to be apparent without further description.

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

5 In a derrick, the combination of a supporting-head having a series of integral radially-extending bifurcated lugs, integral relief-stops at the ends of the lugs, and an integral
10 scket, folding legs pivotally mounted at their upper ends within said bifurcated lugs and adapted to contact with the stops, a forked lever-rest provided with an integral shank loosely working in said socket, and a V-shaped
15 bearing-recess in the base and inclosed between the imperforate parallel walls thereof,

a sectional lever moving between the walls of said rest, and a fulcrum-plate secured to the under side of the lever and provided with a pointed V-shaped fulcrum-lug having its 20 apex larger than the apex of said V-shaped bearing-recess in the base of the rest and in which said lug works, substantially as set forth.

In testimony that I claim the foregoing as 25 my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM W. WHITE.

Witnesses:

J. D. KINDLE,
J. A. WHITE.