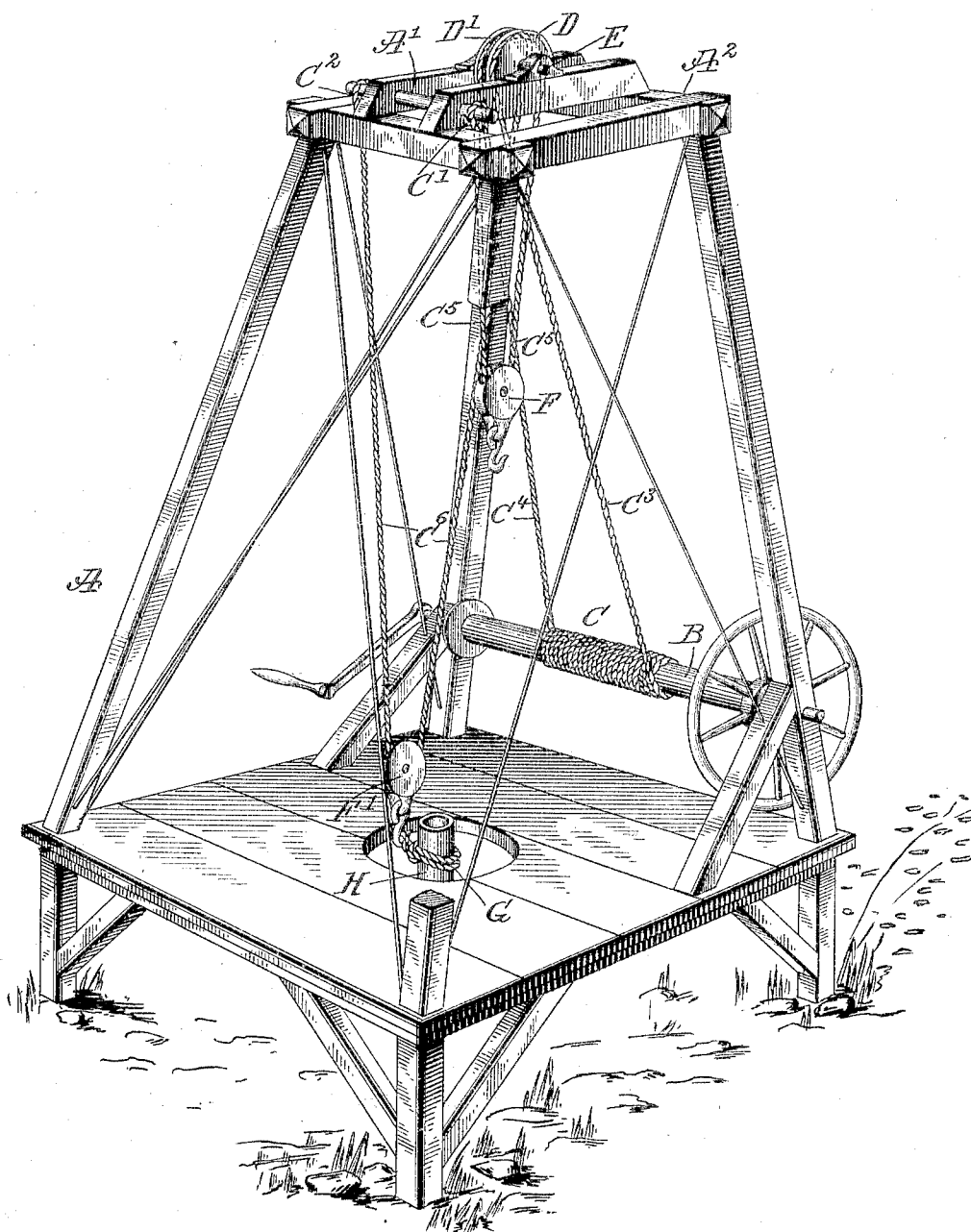


No. 794,023.

PATENTED JULY 4, 1905.

J. KAMBISH, JR.
HOISTING DEVICE.
APPLICATION FILED JAN. 16, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN KAMBISH, JR., OF PINEY, WEST VIRGINIA.

HOISTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 794,023, dated July 4, 1905.

Application filed January 16, 1905. Serial No. 241,242.

To all whom it may concern:

Be it known that I, JOHN KAMBISH, Jr., a citizen of the United States, and a resident of Piney, in the county of Wetzel and State of West Virginia, have invented a new and Improved Hoisting Device, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved hoisting device, more especially designed for raising and lowering deep-well tubing, pump-rods, and the like, and arranged to allow convenient and quick raising and lowering of a load without much expenditure of power.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which the figure is a perspective view of the improvement.

In a suitably-constructed frame or stand A is journaled a drum B, on which winds and unwinds a portion of a rope or cable C, having its ends C' and C'' secured to a pin or other device A', held on the overhead structure A² of the frame or stand A. The runs C³ and C⁴ of the rope or cable extend upwardly from the drum B and pass over pulleys D and D', mounted to rotate independent one of the other and in opposite directions on a shaft E, held on the overhead structure A². The rope between the end C' and the pulley D is formed into a downwardly-hanging loop C⁵, and the portion of the rope between the end C'' and the pulley D' is formed into a loop C⁶. In the loops C⁵ and C⁶ are hung sheaves F and F', of which one is adapted to be connected at a time by a suitable fastening device G with the tube, rod, or other device H to be raised or lowered.

By reference to the drawing it will be seen that when the drum B is rotated in one direction then the run C' of the rope or cable winds up on the drum B, while the other run C'' unwinds from the drum, and hence the winding-up run C' causes an upward movement of the loop C⁶, the sheave F', fastening device G, and the load H, while at the same time the loop C⁵ moves downward, and with it the sheave

F, as the run C³ is unwound at the time from the drum B. Thus while the sheave F' moves upward the sheave F moves downward, and when the sheave F', and with it the load, has reached an uppermost position then the sheave F is connected with the load a distance below the point engaged by the fastening device G, and then the fastening device G is removed from the load H and the drum B is reversed, so that the run C'' winds up on the drum and the run C' unwinds from the drum. When this takes place, the sheave F is caused to move upward while the sheave F' descends, and when the sheave F, and with it the load, has reached an uppermost position then the sheave F' is again connected to the load and the sheave F disconnected from the load. The drum B is then again turned in the original direction and the above-described operation is repeated.

The device is very simple and durable in construction, is not liable to easily get out of order, and can be readily put in use to quickly and conveniently raise a well-tubing, drill-rod, or the like, or to lower the same by reversing the above-described operation.

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

1. A hoisting device, comprising a frame formed of a platform having a central aperture and provided with legs and uprights on the platform and connected together at their upper ends to form an overhead structure, a drum mounted in the lower ends of two of the uprights, a shaft in the overhead structure, pulleys mounted side by side on said shaft to rotate independently one of the other and in opposite directions, pins in the overhead structure, a hoisting-rope wound upon the drum so that one portion winds up on the drum while the other portion unwinds, the ends of the rope being passed up over the pulleys then downwardly and upwardly to form loops and their ends secured to the pins in the overhead structure, and a sheave in each of the loops of the hoisting-rope, said sheaves being adapted to be alternately connected with the load to be lifted or lowered, substantially as herein shown and described.

2. A device of the class described, comprising

ing an upright frame, a drum mounted in the lower part of the frame, a hoisting-rope winding upon the said drum and having its ends secured to the upper part of the frame, a shaft
5 in the upper part of the frame pulleys mounted side by side on the said shaft to turn independently thereon, the said rope passing over the pulleys and formed into loops between the pulleys and the fixed ends thereof, and
10 hoisting-sheaves hung in the loops and adapt-

ed to be alternately connected with the load to be lifted or lowered.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN KAMBISH, JR.

Witnesses:

HENRY FOULKROD,
CLAYBOURNE MUZZY.