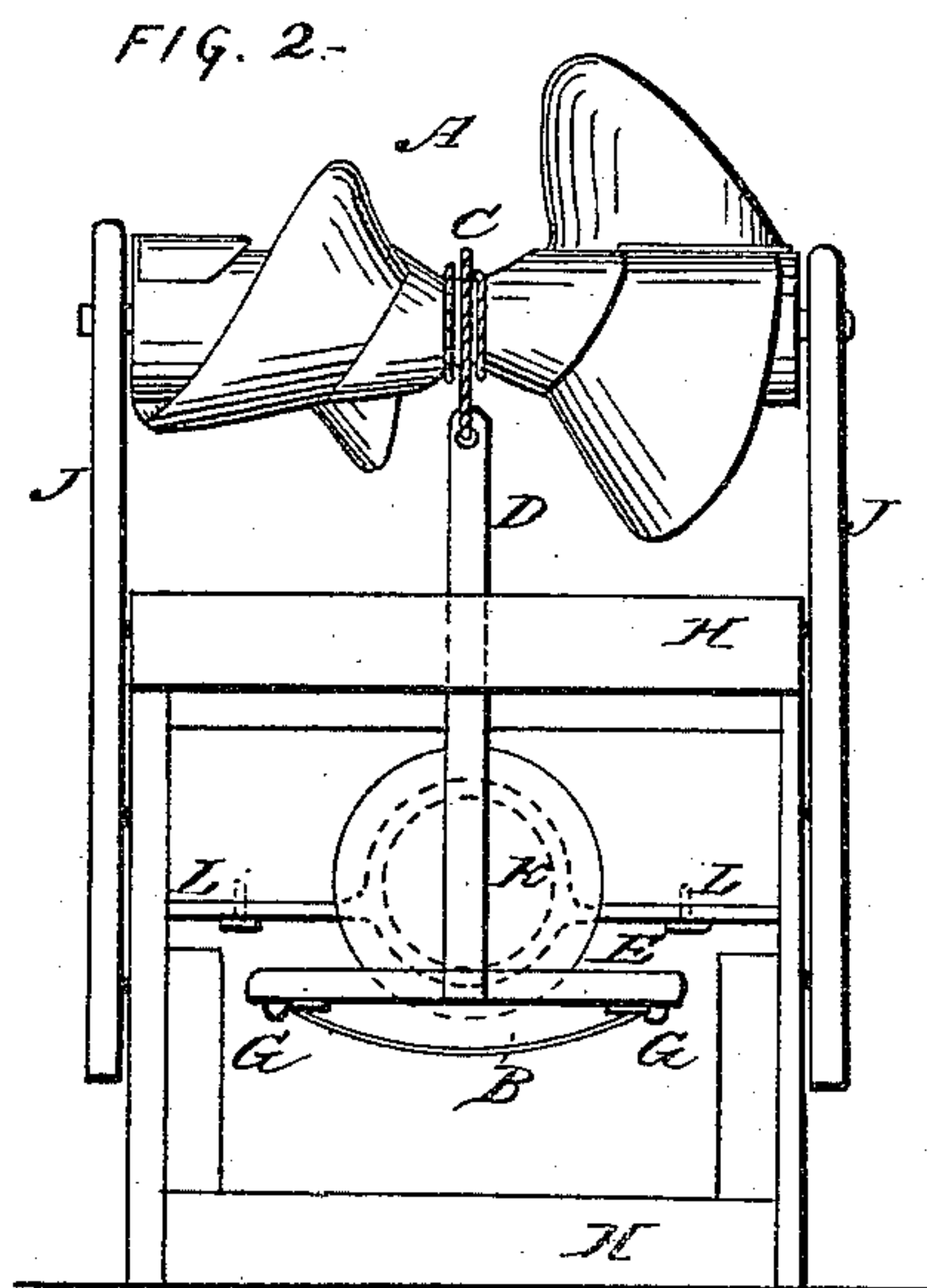
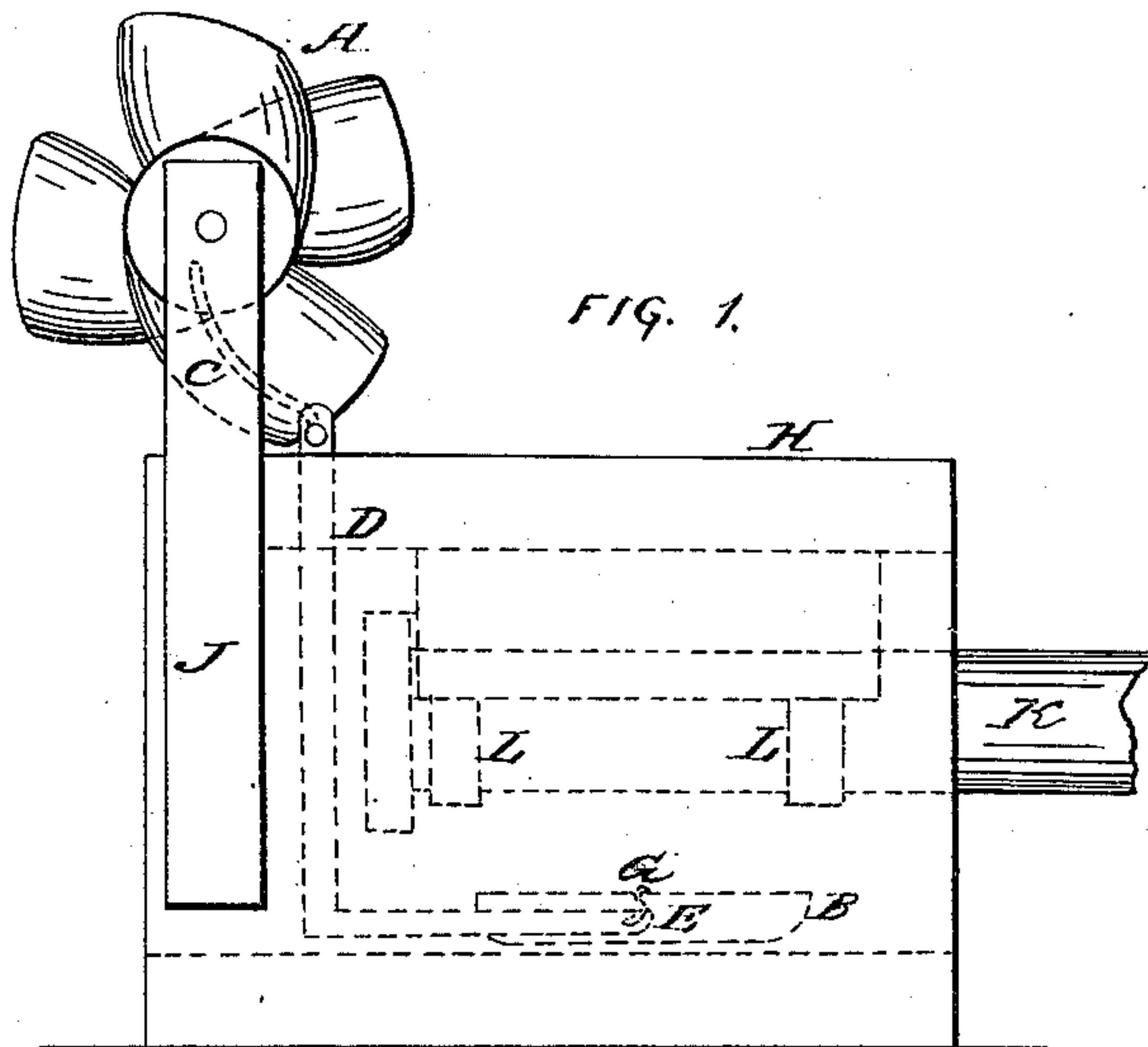


J. T. HAGERTY.

Car-Axle Box.

No. 99,882.

Patented Feb. 15, 1870.



WITNESSES:

Godfrey Mathys  
Henry W. Myzant

INVENTOR:

John T. Hagerty  
By his Atty.  
J. O. King and

# United States Patent Office.

JOHN T. HAGERTY, OF CAMP POINT, ILLINOIS.

*Letters Patent No. 99,882, dated February 15, 1870.*

## IMPROVED RAILWAY-CAR AXLE-BOX.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, JOHN T. HAGERTY, of Camp Point, Adams county, and State of Illinois, have invented new and useful Improvements in Car Axle-Boxes and Oiling the Journals; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a side elevation, exhibiting the interior of the box in dotted lines, with the lubricator at rest.

Figure 2 shows an end view of the interior of the box, and exhibiting the lubricator raised and in position for oiling the journal by the operation of the screw-propeller above.

The nature of my invention consists in the construction of a screw-propeller, located on a shaft or windlass, forming a spiral windlass, in the center of which is a chain attached, and connected with an upright arm that supports a horizontal frame that carries with it a concave lubricator that is raised and lowered to and from the lower side of the journal of the axle, for the purpose of oiling the journal, by the revolution of the windlass that is propelled by the resistance of the atmosphere while the cars are in motion, the windlass being located at the upper side and front end of the journal-box.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the spiral windlass, and B the lubrica-

tor. The windlass is intended to be made of cast-iron, with spiral flanges on the outside.

The center of the windlass is grooved, for a chain, C, to wind up around it, one end of the chain being connected to the center of the windlass, and the other end to the upright arm D, that supports a forked frame, E, at the ends of which the concave lubricator B is suspended at its centre (on each side) by pivots or hooks G.

The spiral windlass A is located on the upper side and upon the outer end of the journal-box H, its journals revolving in two upright posts, J J, and as the windlass is revolved by the air, the chain C is wound up, drawing with it the arm D, with its lubricator E, until it is sufficiently near to the lower side of the car-axle K, that it can be supplied with oil that the lubricator has carried up from the bottom of the box H, and the moment the cars stop the spiral windlass A ceases to revolve, and the lubricator drops again, by its own weight, to the bottom of the box.

The braces L L are supports for the journal K, operating on the inside of the box H.

What I claim as my invention, and desire to secure by Letters Patent, is—

The spiral windlass A, in combination with the lubricator B, when constructed and operating as herein described, and for the purposes set forth.

JOHN T. HAGERTY.

Witnesses:

G. W. CYRUS,  
CHAS. V. GAY.