

M. J. ALTHOUSE.
WIND-WHEEL.

No. 173,876.

Patented Feb. 22, 1876.

Fig. 1.

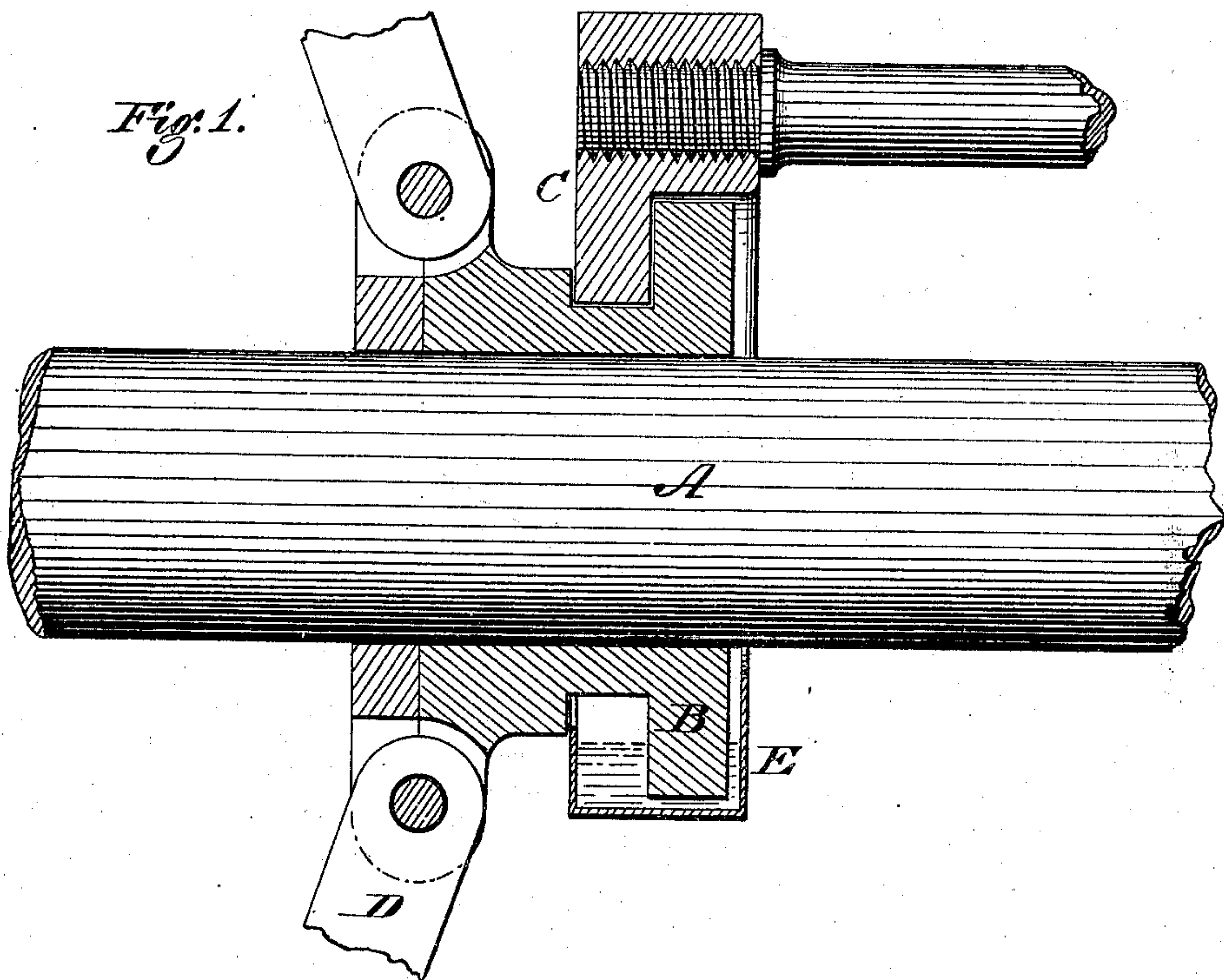
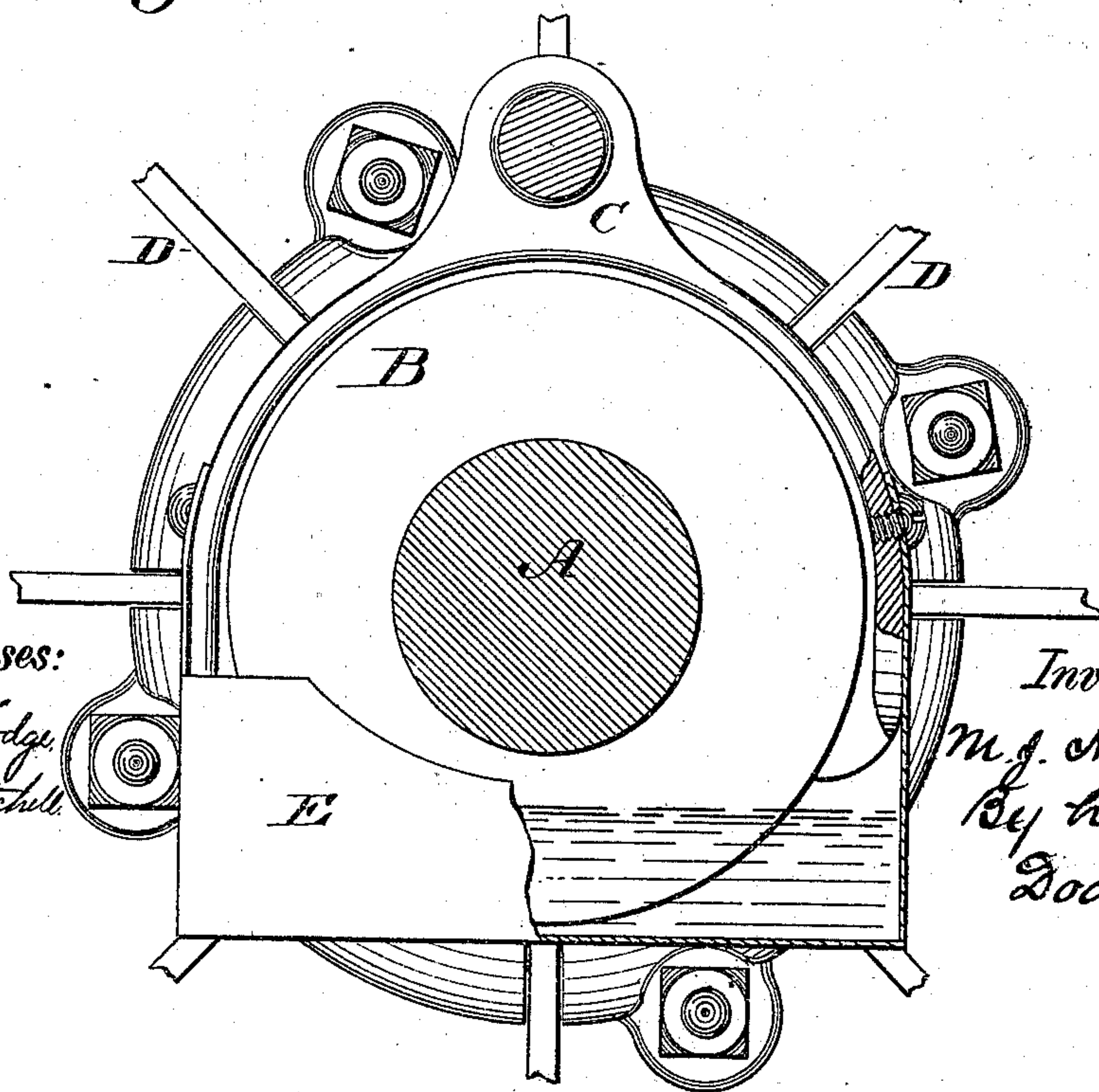


Fig. 2.



Witnesses:
Hill H. Dodge
Oliver Twitchell

Inventor:
M. J. Althouse
By his atty.
Dodge & Son

UNITED STATES PATENT OFFICE.

MILO J. ALTHOUSE, OF WAUPUN, WISCONSIN.

IMPROVEMENT IN WIND-WHEELS.

Specification forming part of Letters Patent No. **173,876**, dated February 22, 1876; application filed January 27, 1876.

To all whom it may concern:

Be it known that I, MILO J. ALTHOUSE, of Waupun, in the county of Fond du Lac and State of Wisconsin, have invented certain Improvements in Wind-Wheels, of which the following is a specification:

The object of my invention is to provide for the thorough and constant lubrication of the sliding and rotating collars which are employed on the shafts of wind-wheels for the purpose of operating the sail-controlling arms, and to this end the invention consists in suspending under the collar, in such manner as to be carried therewith, a box to contain a supply of oil in which the lower edge of the collar will be constantly immersed.

Figure 1 is a vertical sectional view showing my improvement applied to a collar in position on its shaft; Fig. 2, a face view of the same, with one side of the oil-cup in section.

A represents the main shaft of a wind-wheel, B the rotary sliding collar mounted thereon, C the yoke or clutch fitting upon the collar for the purpose of holding and moving the same on the shaft as usual, and D the arms pivoted to the collar and connected with the sails, for the purpose of holding and adjusting them, and E my oil-box, made of suitable form to inclose the lower side of the collar and suspended thereunder by arms screwed to the sides of the yoke or clutch C, as shown, so that when the box is filled to a suitable height with oil, and the wheel set in motion, the collar running in the oil will be thoroughly lubricated thereby. The oil will not only lubricate the periphery of the collar and pre-

vent friction upon the yoke, but being carried up with the collar will also run down upon the shaft and keep it lubricated, so that the collar will slide easily thereon.

The essential feature of the invention is the suspension of an oil-cup under the collar of a wind-wheel in such manner as to be carried therewith as the collar moves back and forth on the axle. The form of the box and the manner of suspending it may be varied according to the requirements of each particular wheel, and in order to exclude rain and snow from the box, a shield or housing may be carried over the collar and yoke.

I am aware that oil-cups and lubricating devices of various kinds are in use in many places, but I am not aware that any one has hitherto suspended an oil-cup below the collar of a wind-wheel in such manner as to be carried back and forth therewith.

What I claim as my invention is—

1. In a wind-wheel, the combination of a rotary collar mounted on the main shaft and an oil-cup suspended below said collar, substantially as shown and for the purpose described.

2. In a wind-wheel, the combination of the main shaft A, a sliding and rotating collar, B, mounted thereon, and an oil-cup, E, suspended below the collar, substantially as and for the purpose described.

3. The combination of the shaft A, collar B, yoke C, and oil-cup E, as shown.

M. J. ALTHOUSE.

Witnesses:

L. D. HINKLEY,
A. NUDD.