(No Model.)

E. W. VANDUZEN.

LUBRICATOR FOR LOOSE PULLEYS, &c.

No. 259,344. Patented June 13, 1882.

Fig 1.

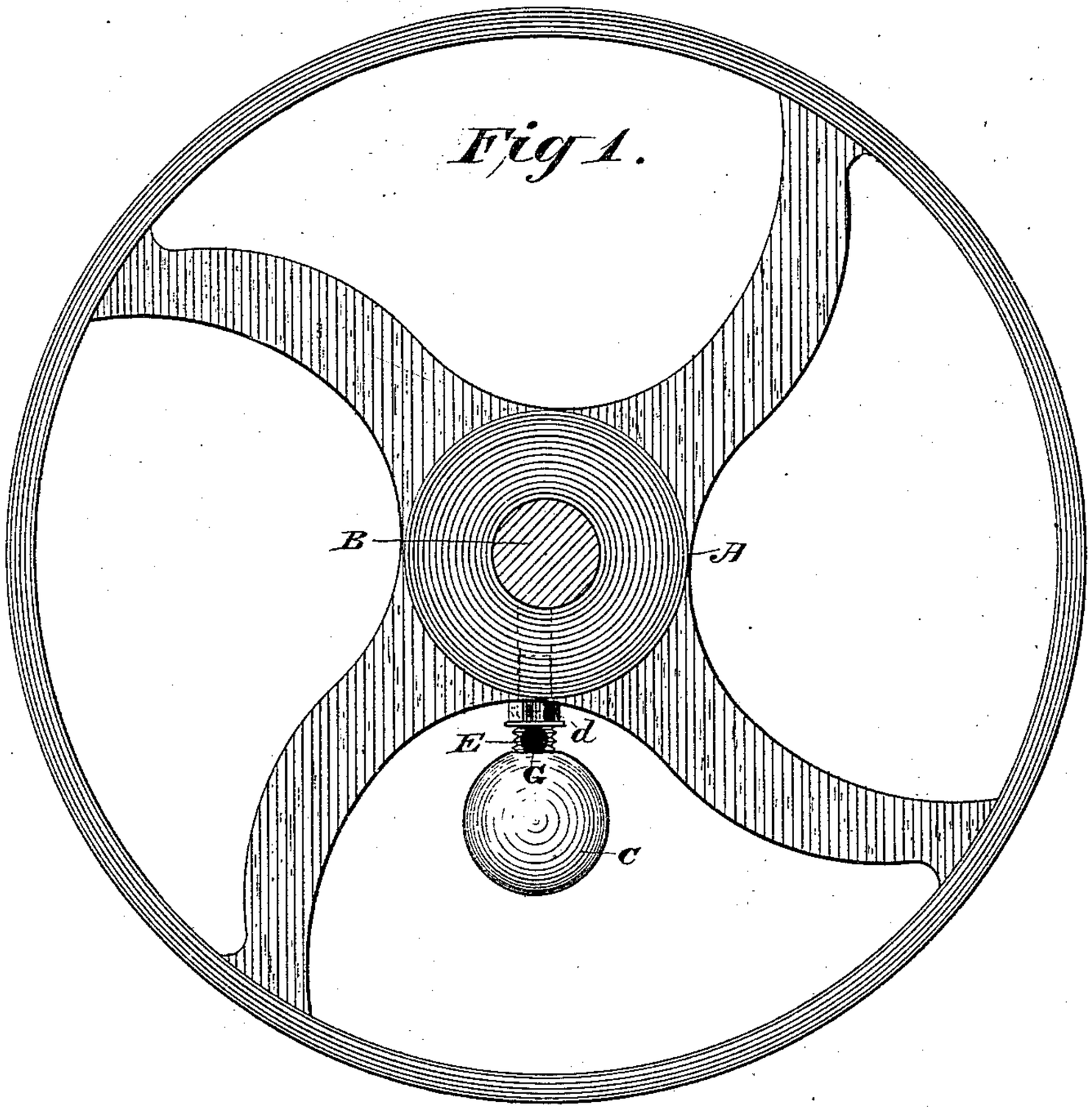


Fig 2.

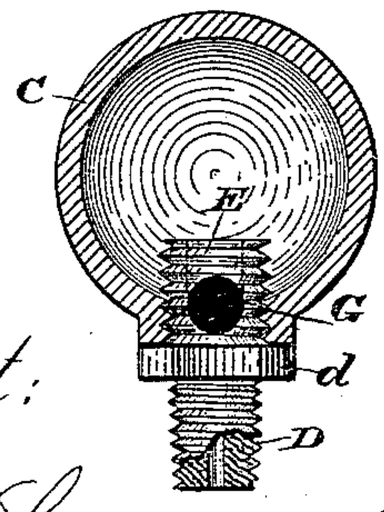
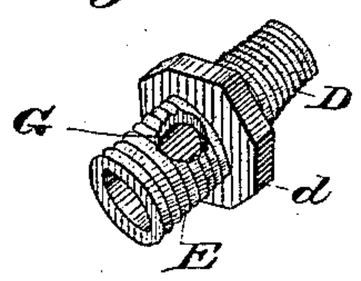


Fig 3.



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UNITED STATES PATENT OFFICE.

EZRA W. VANDUZEN, OF NEWPORT, KENTUCKY.

LUBRICATOR FOR LOOSE PULLEYS, &c.

SPECIFICATION forming part of Letters Patent No. 259,344, dated June 13, 1882.

Application filed January 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, EZRA W. VANDUZEN, of Newport, in the county of Campbell and State of Kentucky, have invented an Improvement in Lubricators for Loose Pulleys, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, which will enable others skilled in the art to which my invention appertains to make and use it.

My invention relates to those lubricators which are provided with a feeding-stem which forms a plug to the filling-opening.

My improvement consists in providing the inner end of the plug with an orifice or opening in its side, by which the oil-receptacle can be filled without entirely removing the latter.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 shows my improved lubricator applied to the hub of a loose pulley in position for filling, the shell being partially unscrewed to expose the orifice or opening in the plug through which the receptacle is filled with oil. Fig. 2 is a longitudinal section, on a larger scale, of the lubricator closed and in feeding position, the plug being shown in elevation. Fig. 3 is a perspective view of the plug on a still larger scale.

Similar letters of reference denote like parts in the several figures of the drawings.

A represents a loose pulley, and B a shaft upon which it is mounted.

C is an oil-cup, preferably made of metal, in the form of a hollow ball or shell, and provided with a screw-threaded feeding-stem, D, by which it is secured to the hub of the pulley, a hexagon nut, *d*, being adapted to receive a suitable wrench for this purpose. The side of the shell or ball is formed with an orifice closed by a screw-plug, E, on the inner end of the stem. The plug is hollowed out and an orifice or slot, G, formed in the side to provide an opening through which the oil is supplied to the shell when the latter is partly unscrewed from the attaching-stem, as the opening G will readily admit the nozzle of the oil-can. The filling-opening in the plug forms the subject-matter of my application for Letters Patent filed 7th January, 1881. This opening is of very great advantage in the present device, as it obviates the necessity of entirely disconnecting the shell from or with its attaching-stem.

When oil is to be supplied to the shell through the plug the pulley is turned so as to bring the shell to its lowest or inverted position. The shell is then partially unscrewed to expose the opening G, when oil is poured in by placing the nozzle of the can within it. It is desirable to see that the filling-opening G is placed in the position shown in Fig. 1.

The shell may be made of glass, if preferred.

If preferred, the filling-opening G may be in the form of a slot, as indicated by broken lines in Fig. 2.

I prefer to make the size of opening or duct in the screw-threaded shank larger or smaller, according to the amount of surface that has to be oiled. I make the opening one-sixteenth of an inch in diameter for a nine-inch surface, one-eighth of an inch for thirty-six-inch surface, and so on.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The feeding-stem D, formed with plug E, having a filling orifice or opening, G, in the side thereof, as set forth.

2. The combined filling-plug and feeding-stem, having a filling orifice or opening, G, in the side of the plug, in combination with a shell, C, as set forth.

EZRA W. VANDUZEN.

Witnesses:

JOHN D. GALLAGHER,

JEPTHA D. GARRARD.