

J. J. CALLAGHAN & P. J. GALLAGHER.

Oil-Boxes for Mine-Car Wheels.

No. 157,907.

Patented Dec. 22, 1874.

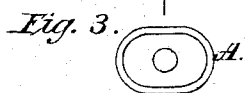
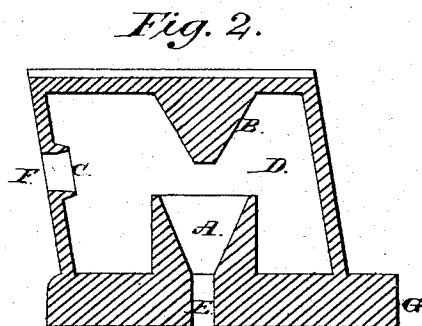
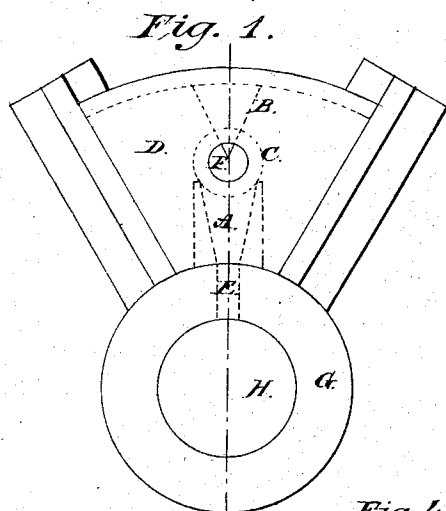
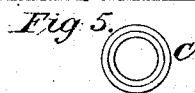
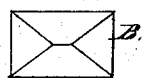


Fig. 4.



Attest:
William Heffron
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UNITED STATES PATENT OFFICE.

JOHN J. CALLAGHAN AND PATRICK J. GALLAGHER, OF MOUNT SAVAGE,
MARYLAND.

IMPROVEMENT IN OIL-BOXES FOR MINE-CAR WHEELS.

Specification forming part of Letters Patent No. **157,907**, dated December 22, 1874; application filed
September 17, 1874.

To all whom it may concern:

Be it known that we, JOHN J. CALLAGHAN and PATRICK J. GALLAGHER, of Mount Savage, Allegheny county, and State of Maryland, have invented an Improved Oil-Box for Mine-Car Wheels, of which the following is a specification:

The object of our invention is to economize oil and labor in lubricating axle-journals of mine-cars; and we hereby declare the following is a full, clear, and correct description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

We are both of us practical mechanics, and the ordinary mine-car wheel, which is made of cast-iron, having attracted our attention, we find the wheel requires to be oiled at least twice, and frequently as often as five and six times, each day when it is in use, and there is generally enough oil used at each time to lubricate the journal for one week if properly applied. After careful thought and experiment we have discovered a method of saving this waste of oil and labor.

Our improvement is shown in Figures 1 and 2, in plan and section; and consists of an oil-cup, A, for the purpose of preventing the oil from escaping through E, and receiving oil from B, which passes through E, and lubri-

cates the journal. The height of this cup determines the capacity of the box, which, in this case, is calculated to hold enough oil for one week's use. A feeding-plug, B, which, at each revolution of the wheel, on reaching the position shown in the drawing, deposits one or two or more drops of oil, according to its size, in the cup A, and a thimble, C, on the inside of charging-hole F, for the purpose of preventing oil from escaping therefrom, thereby dispensing with the plug in F, which is troublesome to remove for the purpose of oiling, and also to keep in its place.

Figs. 3, 4, and 5 represent, in plan, oil-cup A, feeding-plug B, and thimble C, respectively, all of which may be formed in the core of the oil-box in the process of molding the wheel, which would require such a small amount of extra work that it would not form an item in the cost of the wheel.

Having thus described our invention, we claim—

The oil-cup A, the feeding-plug B, and the thimble C, combined in the oil-box of mine-car wheels, substantially as and for the purpose set forth.

JOHN J. CALLAGHAN.

PATRICK J. GALLAGHER.

Witnesses:

JAMES STEPHENS,

WILLIAM HEFFRON.