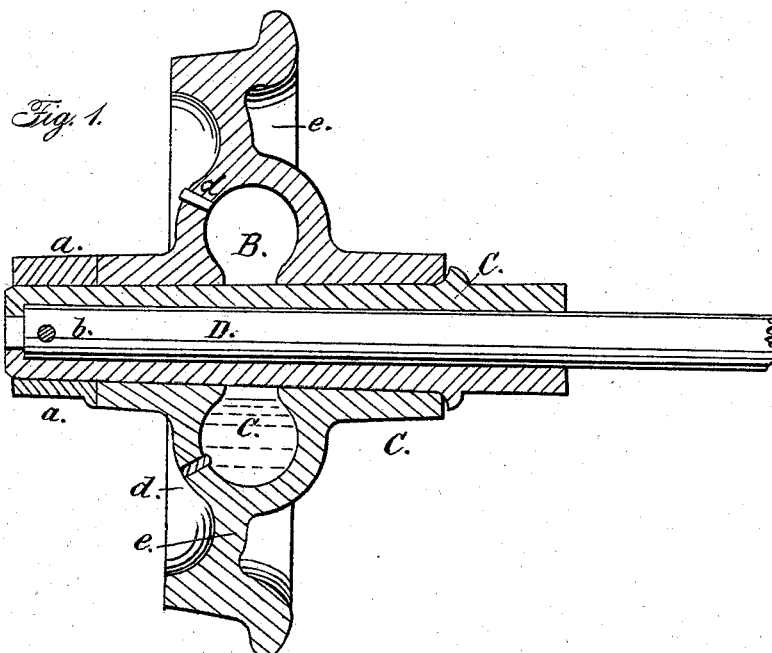


J. W. LATCHER.

Car Wheel.

No. 54,925.

Patented May 22, 1866.



Witnesses:

*J. B. Bruton.*  
*A. L. Locum.*

Inventor:

*J. W. Latcher*

# UNITED STATES PATENT OFFICE.

JOHN W. LATCHER, OF ALBANY, NEW YORK.

## IMPROVEMENT IN CAR-WHEELS FOR LUBRICATING PURPOSES.

Specification forming part of Letters Patent No. **54,925**, dated May 22, 1866; antedated May 7, 1866.

*To all whom it may concern:*

Be it known that I, JOHN W. LATCHER, of Albany, county of Albany, and State of New York, have invented a new and useful Improvement in Independent Revolving Car-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a vertical central section of my invention, showing the oil-reservoir B, thimble-skein C, axle D, made of round wrought-iron, collar *a*, and linchpin *b*, also showing the oil *c* in the reservoir B stopped in with wooden plugs *d*.

Car wheels and axles constructed or made on this plan will outwear wheels having brass or composition bushings, as the surface or hole through the hub is chilled in casting, as also the periphery of the thimble-skein C, which comes in contact with the wheel in revolving, so that hardened surfaces wear against each other, thus avoiding the necessity of boring and fitting the wheel as well as the brass or composition bushing by substituting a much harder wearing-surface.

The oil-reservoir is an annular chamber encircling the thimble-skein nearly in the middle of its length, having that portion nearest the

journal contracted, as shown, to avoid too great an expenditure of oil, as well as to give strength to the wheel. The plate *e* of the wheel springs from the crown of the oil-reservoir, answering the purpose admirably of compromising the shrinkage of the wheel however unequal.

Whenever it is desirable to pour oil into the wheel it is effected by driving the uppermost plug, *d*, into the wheel, pouring the required quantity into the aperture, and again closing the same by another similar plug. The oil should not reach a higher point when the wheel is inert than is represented at *e*, some distance below the journal C.

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

1. Forming an oil-reservoir, B, in the body of independent revolving car-wheels, and the oil retained therein for gradual use by means of plugs *d*, in combination with stationary journal C, substantially as described.

2. Forming an oil-reservoir in such a manner as shall compromise unequal shrinkage, as shown and described.

J. W. LATCHER.

Witnesses:

S. B. BENTON,  
A. C. SLOCUM.