

(No Model.)

M. HAMLIN.

CAR WHEEL.

No. 296,954.

Patented Apr. 15, 1884.

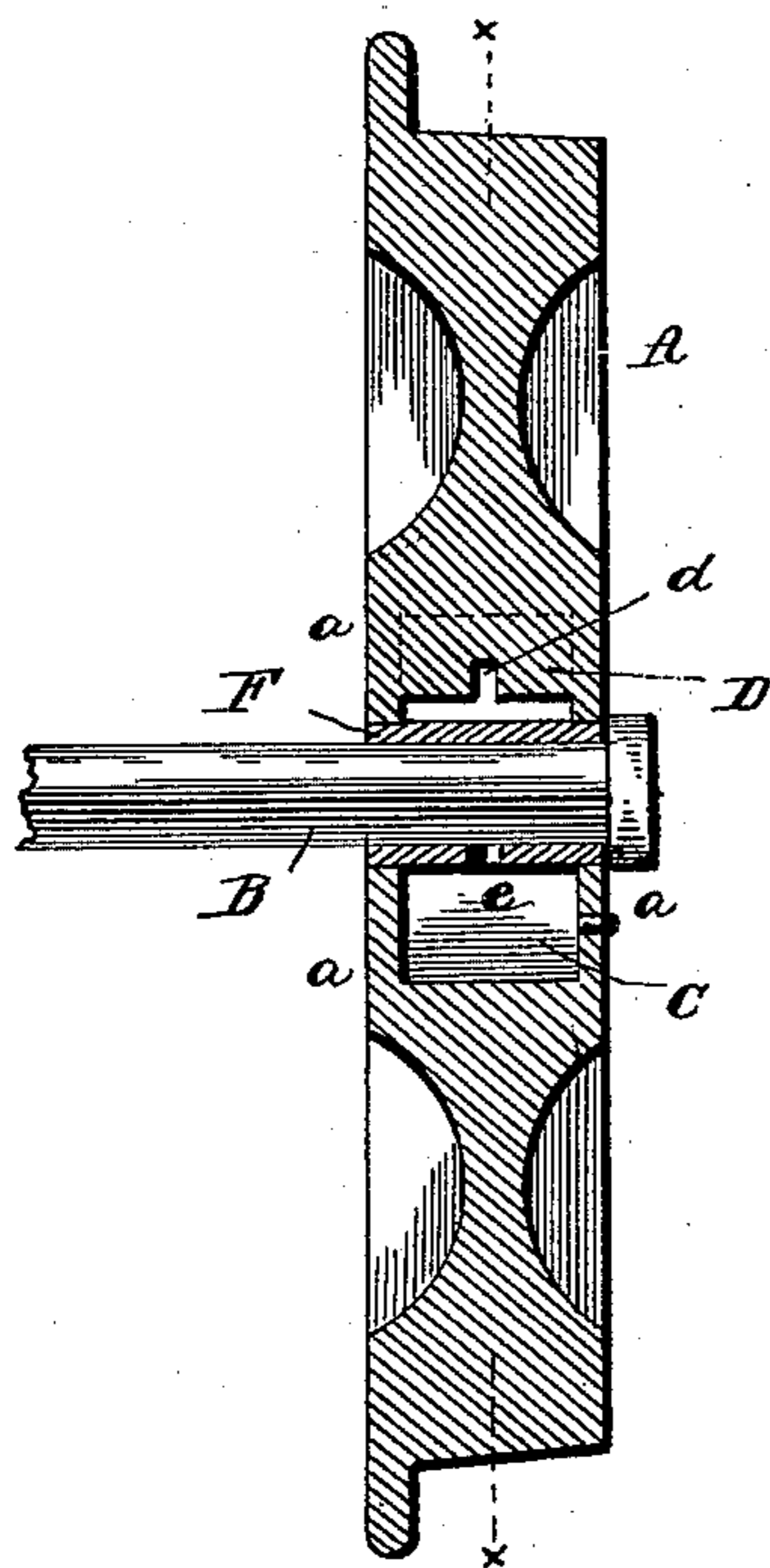
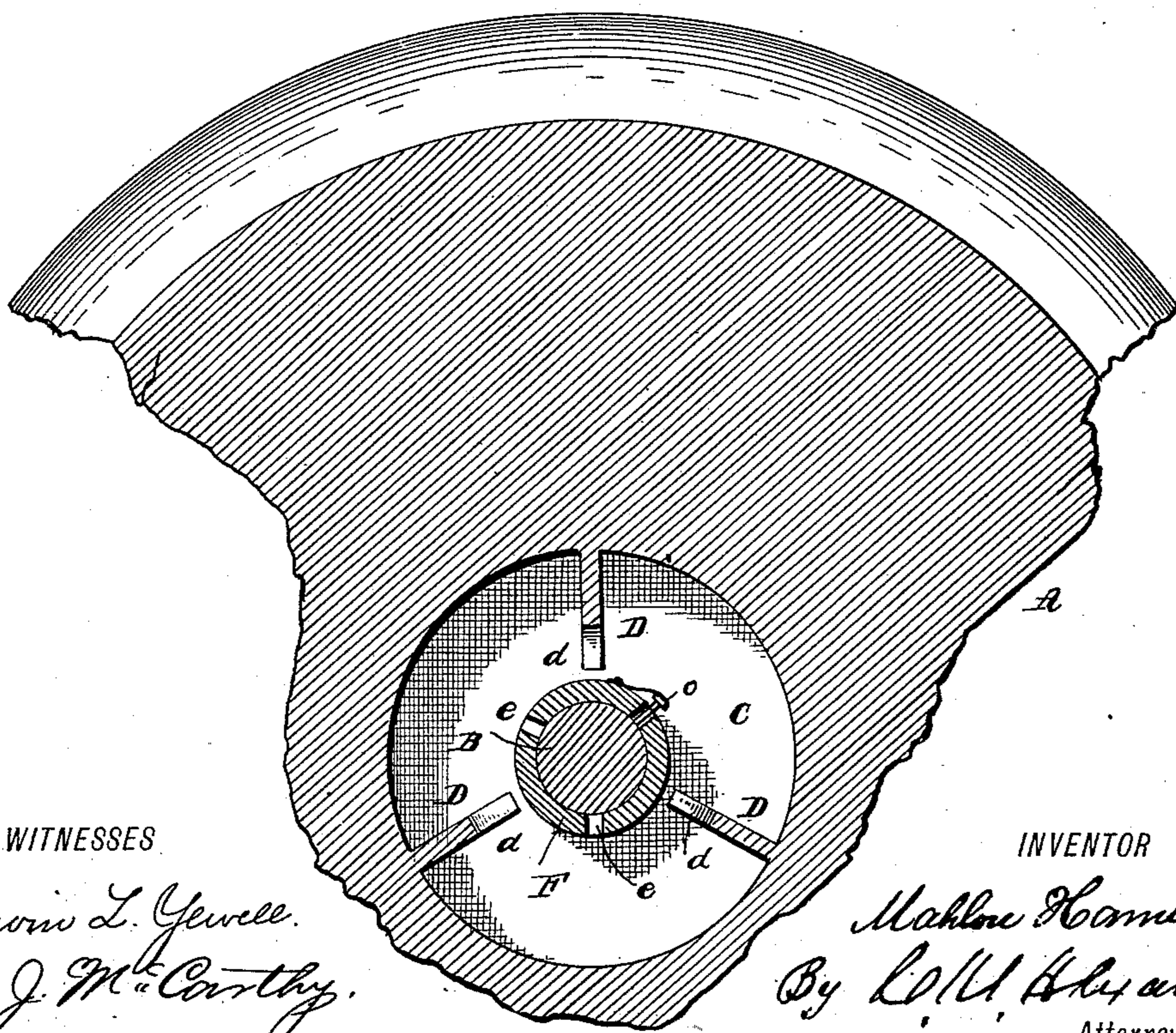


Fig. 1.

Fig. 2.



WITNESSES

Edwin L. Jewell.
J. J. McCarthy.

INVENTOR

Mahlon Hamlin
By L. M. Alexander
Attorney.

UNITED STATES PATENT OFFICE.

MAHLON HAMLIN, OF CATAWISSA, PENNSYLVANIA.

CAR-WHEEL.

SPECIFICATION forming part of Letters Patent No. 296,954, dated April 15, 1884.

Application filed February 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, MAHLON HAMLIN, a citizen of the United States, residing at Catawissa, in the county of Columbia and State of Pennsylvania, have invented certain new and useful Improvements in Car-Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates more particularly to truck or tram wheels, but may be used wherever a wheel so constructed may be applied; and the object I have in view is to form a cheap, durable, and reliable self-oiler, as will be hereinafter more particularly set forth.

In the accompanying drawings, making part of this specification, Figure 1 represents a vertical section; and Fig. 2, a cross-section on the line *x x*, Fig. 1.

In the figures, A represents a tram or car wheel, which may either be cast solid or with spokes, or any desirable open-work upon its sides. An annular chamber, C, is formed around the eye of the wheel in casting, and in this chamber are cast three or more flanges, D, the inner ends of which approach very closely to the casing of the axle, but do not touch it. These flanges D are provided with slots or openings *d d*, which allow the oil to pass from the chamber C to the axle.

a a represent the side walls of the chamber, which are made of sufficient thickness to give strength to the wheel.

F represents a steel tube or bushing which is secured in the eye of the wheel, whether by hydraulic pressure or any other well-known means. This tube is perforated, as

seen at *e e*, to allow oil to pass to the axle B, which passes through and for which it forms a bearing. Small pins O, with round heads, are passed into these openings and fit loosely therein. These pins serve to agitate the oil in the chamber C. They will be moved in one direction by the flanges D, pressing upon their heads, and in the other by any suitable spring adapted to the purpose. The oil is introduced to the chamber by a suitable orifice in the side of the wheel. The flanges D carry the oil around and always keep it agitated, while the pins O, moving in the openings *e e*, cause it to be fed slowly but certainly to the axle.

I do not claim, broadly, an oil-chamber surrounding the axle of a wheel; but,

Having thus fully described this invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The chamber C in a car-wheel, surrounding the eye of the same and provided with the slotted flanges D D, integral with the wheel, in combination with the perforated steel casing in the eye, substantially as and for the purpose set forth.

2. The oil-chamber C and flanges D D, as constructed, in combination with the perforated steel casing F, and the pins O O, playing in the perforations of same, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MAHLON HAMLIN.

Witnesses:

CHAS. D. DAVIS,
H. J. ENNIS.