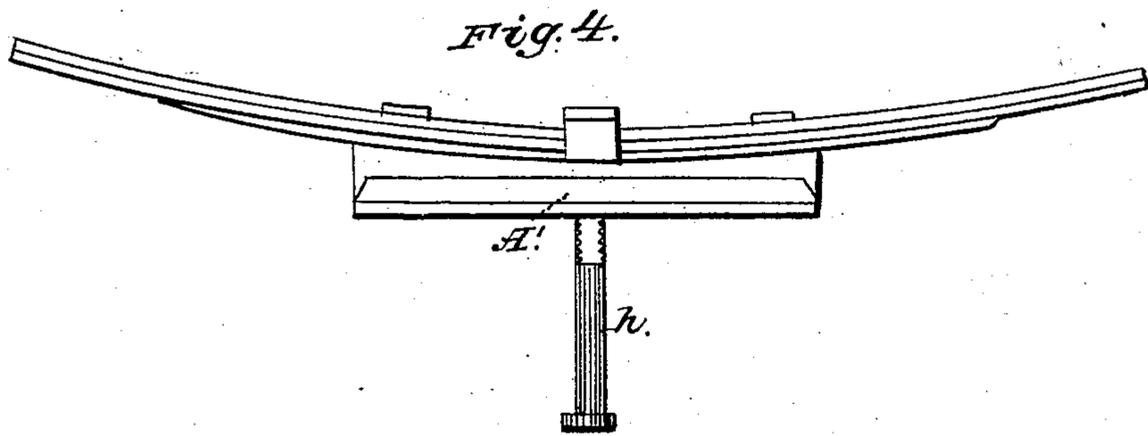
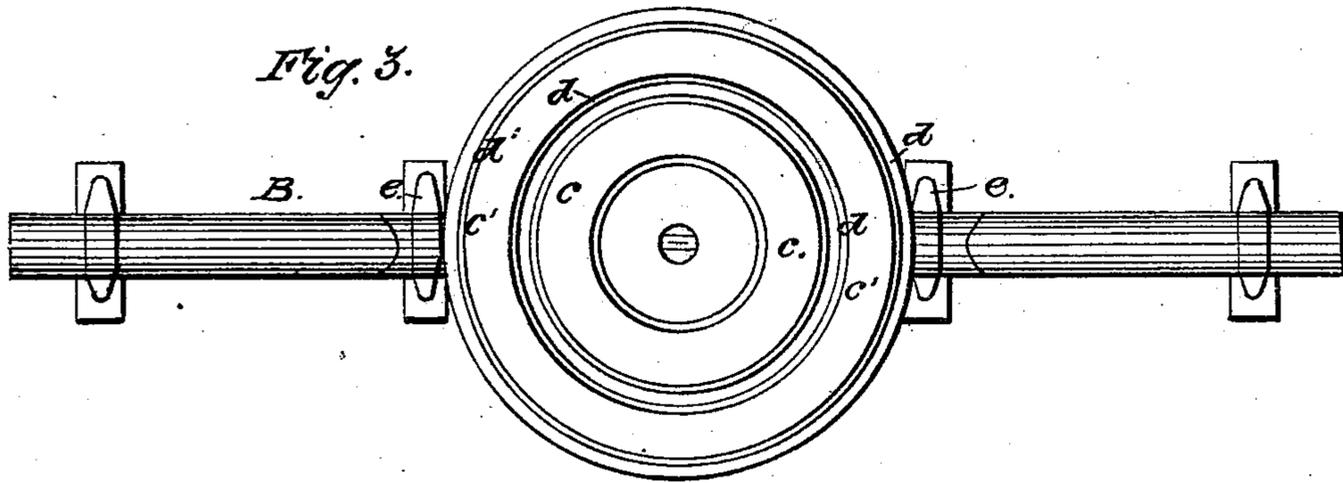
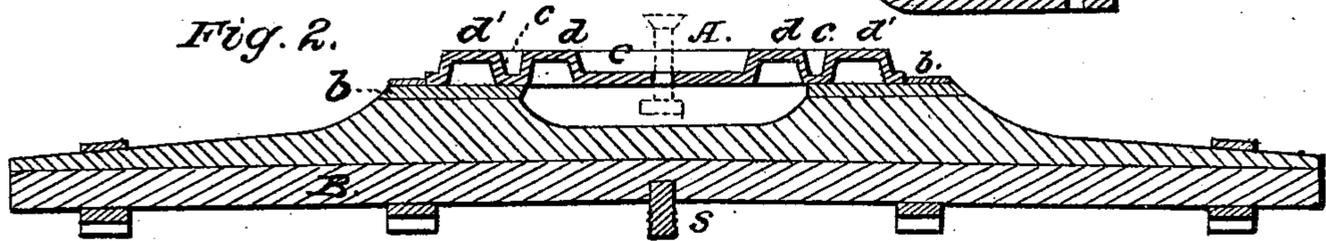
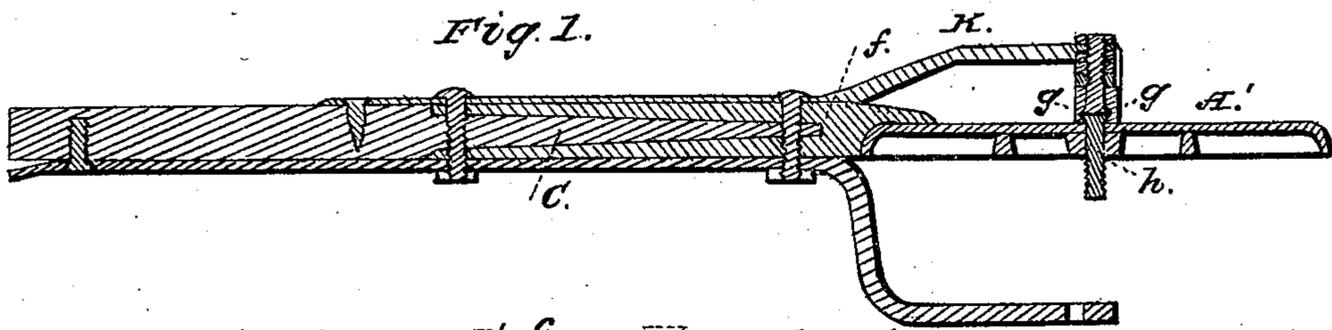


H. MOON.

Fifth Wheel for Carriages.

No. 75 183.

Patented March 3, 1868.



Witnesses
Jno A. Ellis
Morris Pool

Inventor:
Hiram Moon
Per
J. H. Alexander
att'y

United States Patent Office.

HIRAM MOON, OF RED CREEK, NEW YORK.

Letters Patent No. 75,183, dated March 3, 1868.

IMPROVEMENT IN CARRIAGES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HIRAM MOON, of Red Creek, in the county of Wayne, and State of New York, have invented certain new and useful Improvements in Circle for Carriages; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 is a section of the top part by the circle.

Figure 2, a section of the lower part of the same.

Figure 3, a plan of the lower part; and

Figure 4, an end view of the upper part.

The nature of my invention consists in the peculiar construction of the circle, the advantages of which are, first, strain and wear are taken from the king-bolt; second, additional strength and durability are added to a vehicle; third, it lessens the cost of the same.

To enable others skilled in the art to make and use my invention, I will now describe its construction and operation.

A represents the lower part of the circle, which is provided with the projections *b b*. The object of said projection is to secure the circle, or lower part thereof, to the axle B, by means of common clips, *e e*. The face of this part of the circle is furnished with two annular recesses, *c c'*, thus forming the two annular flanges or elevations *d d'*. The outer circumference of the circle A is so turned off as to leave a flange around its lower part, thus resembling in appearance a railroad-car wheel. The object of this flange will be more apparent hereafter. At the centre of this part of the circle is a bolt-hole, as seen in fig. 3. A' represents the upper part of this circle, which is cast or formed with a rib, *g*. Said rib is grooved out to fit the top part of the spring, and thus more securely is the circle A' held in place. It will be observed that the circle A' is also cast or furnished with the arm *f*, said arm having a slot in it, in which is secured the reach C, by means of screws or bolts. The upper part or face of circle A' is constructed to fit in the under part A, while the outer flange on A will fit against the outer rim of A', and prevent dirt or dust from getting between the two parts. The upper part of the circle is secured to the spring by means of screws or bolts passing through both, the heads of said screws being even with the bottom of the annular recesses, so as to not interfere with the perfect workings of the circle. *h* is a screw-bolt, passing up through the centre of part A'. This screw passes through the hole in the centre of part A, and is held by means of a nut between the axle and the circle, as seen in dotted lines, fig. 2. It would be proper to remark that the head of screw *h* is countersunk in the rib on part A'. *k* represents a spring-brace, and *m* a perch-plate which is formed so as to extend under the axle, as seen in fig. 1. Said perch-plate is furnished with a hole at its end, which slips over the screw-bolt *s* on axle, fig. 2, and thus secured by a nut.

I am aware that forming the circle of two plates, the annular flanges of one fitting in the annular recesses of the other, is not new, and therefore make no claim to this feature; but

What I do claim, and desire to secure by Letters Patent, is—

The combination and arrangement of the upper and lower part of the circle A A' with spring-brace *k* and perch-plate *m*, as and for the purpose set forth and described.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

HIRAM MOON.

Witnesses:

C. ALEXANDER,

J. WHITE.