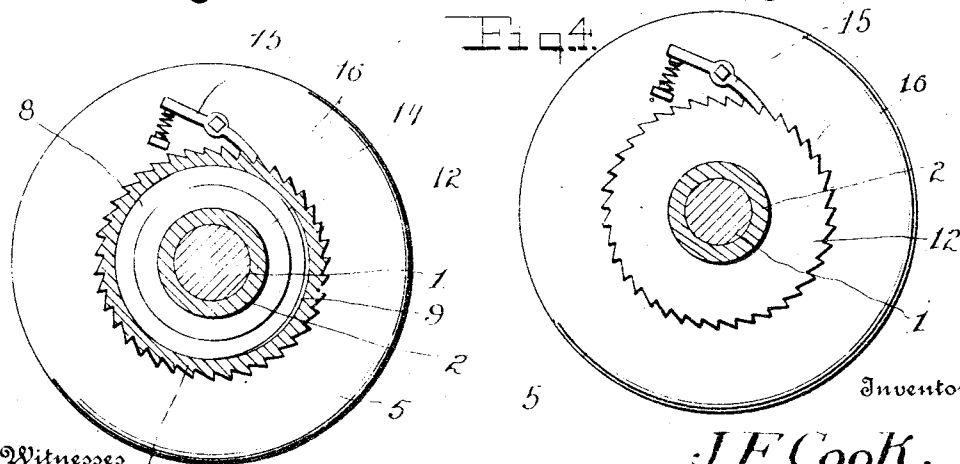
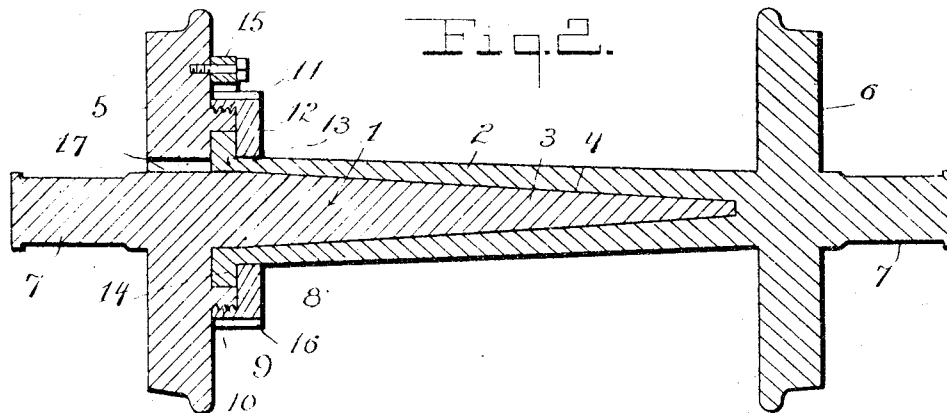
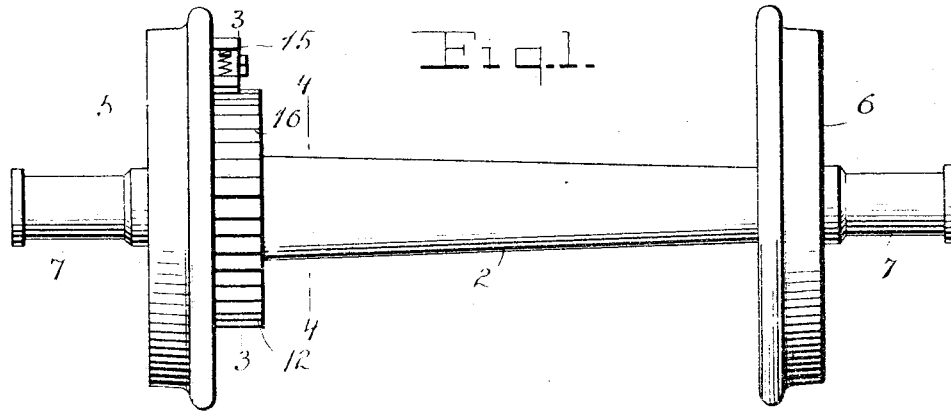


J. P. COOK.
 AXLE FOR RAILROAD CARS.
 APPLICATION FILED NOV. 6, 1912.

1,057,037.

Patented Mar. 25, 1913.



Witnesses
 R. H. Jones,
 C. Sullivan

Fig. 3.

Inventor
 J. F. Cook.
 By *Charles Chandler*
 Attorney

UNITED STATES PATENT OFFICE.

JAMES F. COOK, OF FAYETTEVILLE, ARKANSAS.

AXLE FOR RAILROAD-CARS.

1,057,037.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed November 6, 1912. Serial No. 729,821.

To all whom it may concern:

Be it known that I, JAMES F. COOK, a citizen of the United States, residing at Fayetteville, in the county of Washington, State of Arkansas, have invented certain new and useful Improvements in Axles for Railroad-Cars; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is directed to improvements in axles for railroad cars, and has for its object to construct an axle of this character so that the wheels may rotate independently of each other.

A further object is to provide an axle of this type which is strong, light in comparison to those in general use, thus reducing the cost to a minimum.

With these and other objects in view, this invention resides in the novel features of construction, formations, combinations and arrangements of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:—

Figure 1 is an elevation of the device. Fig. 2 is a longitudinal sectional view through the axle and wheel. Fig. 3 is a sectional view on line 3—3 of Fig. 1. Fig. 4 is a similar view on line 4—4 of Fig. 1.

The axle consists of sections 1 and 2, the section 1 being provided with a tapered spindle 3 which fits within a similar shaped bore 4 formed in the section 2. The sections 1 and 2 are formed integral with flanged wheels 5 and 6, respectively, each of which have formed upon their outer faces journals 7. The wheel 5 is provided upon its inner surface with an annular flange 11 the outer face of which is provided with threads 9 which are engaged by the threads 10 formed upon the inner surface of the flange 11 of the circular cap 12, said cap being provided with a central aperture 13 which receives one end of the section 2. The section 2 is provided at its larger end with an annular shoulder 14 which is held in place by the

cap 12 thus preventing separation of the sections 1 and 2. Pivotaly connected to the inner surface of the wheel 5 is a spring pressed pawl 15, one end of which engages the ratchet teeth 16 formed upon the outer face of the annular flange 11, thus preventing accidental rotation of the cap, which might occur when the movement of the axle has been reversed. From this construction it will be seen that an axle has been provided which is so constructed that one wheel may rotate independent of the other when traveling on a curve.

The wheel 5 is provided with a duct 17, and through which oil may pass to lubricate the axle.

To place the cap 12 upon the section 2 a two-part mold is placed therearound and molten metal poured therein and hardens, after which the mold is removed, thus leaving said cap slidably connected to the section 2.

What is claimed is:—

An axle of the class described consisting of sections, wheels carried by each section, one of said sections being provided with a tapered bore, a spindle formed with the other section and adapted to fit in said bore, said spindle being tapered, an annular flange formed upon the inner face of the wheel carried by the second named section, an annular shoulder carried by the first named section, a circular cap having a flange adapted to engage the annular flange carried by the wheel, an aperture formed in the cap for receiving one end of the first named section so that said cap will engage the annular shoulder formed upon the first named section to prevent separation of said sections, and means carried by one of the wheels for engaging the cap to prevent accidental rotation thereof.

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

JAMES F. COOK.

Witnesses:

J. J. CURRY,

D. C. AMBROSE.