

(No Model.)

S. M. COOK.
CARRIAGE FIFTH WHEEL.

No. 420,423.

Patented Jan. 28, 1890.

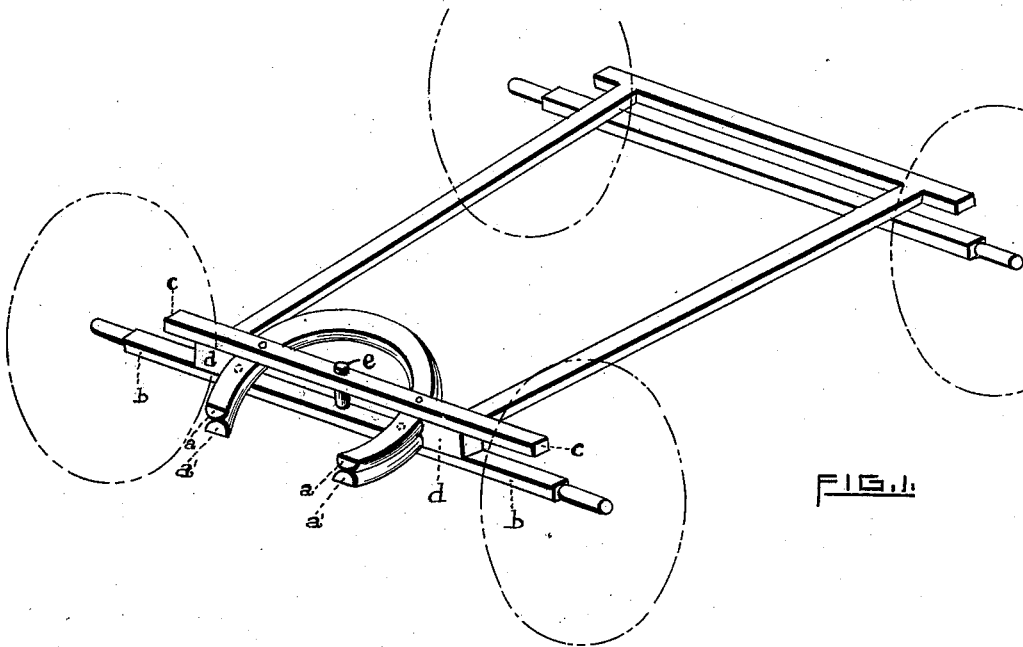


FIG. 1.

FIG. 2.

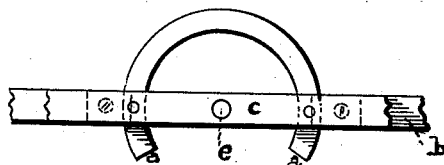


FIG. 3.

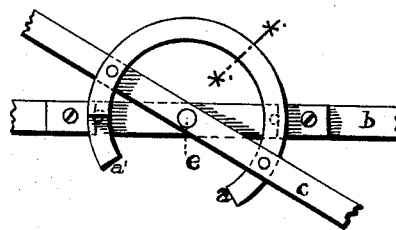


FIG. 4.

WITNESSES,

Harmon S. Babcock
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INVENTOR,

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UNITED STATES PATENT OFFICE.

STEPHEN M. COOK, OF EAST ATTLEBOROUGH, MASSACHUSETTS.

CARRIAGE FIFTH-WHEEL.

SPECIFICATION forming part of Letters Patent No. 420,423, dated January 28, 1890.

Application filed August 14, 1889. Serial No. 320,752. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN M. COOK, a citizen of the United States, residing at East Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in a Circle or Fifth-Wheel for Carriages, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates to improvements in "circles" or "fifth-wheels," in which two circles or segments of circles (of half-round steel or other metal) are placed upon each other with their convex parts in contact; and the objects are, first, to prevent sand and dust from lodging upon either part, and, second, to present as small a part as possible to friction. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows the frame of a wagon-body with axle, circle, or fifth-wheel, bolt, and the cross-bar. Fig. 2 shows a top view of the same parts with the cross-bar directly over the axle.

Fig. 3 shows a top view of the same parts as they appear when the axle is turned, as in driving around a circle. Fig. 4 shows a vertical section of the upper and lower parts of the circle or fifth-wheel.

Similar letters refer to similar parts throughout the several views.

The lower part of the circle *a'* is bolted upon the axle, the upper part *a* to the cross-bar. The piece of steel *d*, (or of other metal,) fashioned so as closely to fit the upper and lower halves of the circle, is also bolted to the axle for the purpose of holding the parts more securely and steadily in place at all times. The upper half of the circle *a*, with the cross-bar *c* and bearing upon the lower half *a'*, turns upon the bolt *e* when the wagon is in use.

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

1. The two circles or semicircles *a' a*, placed with their convex sides in contact, substantially as set forth.

2. The two circles or semicircles placed with their convex sides in contact and in combination with the piece of steel *d*, (or other metal,) for the purpose specified.

STEPHEN M. COOK.

Witnesses:

HARMON S. BABCOCK,
NELSON E. CHURCH.