A. E. HOVEY.

Running-Gear.

No. 62,420. Patented Feb. 26, 1867.

Fig. 1.

Fig. 3

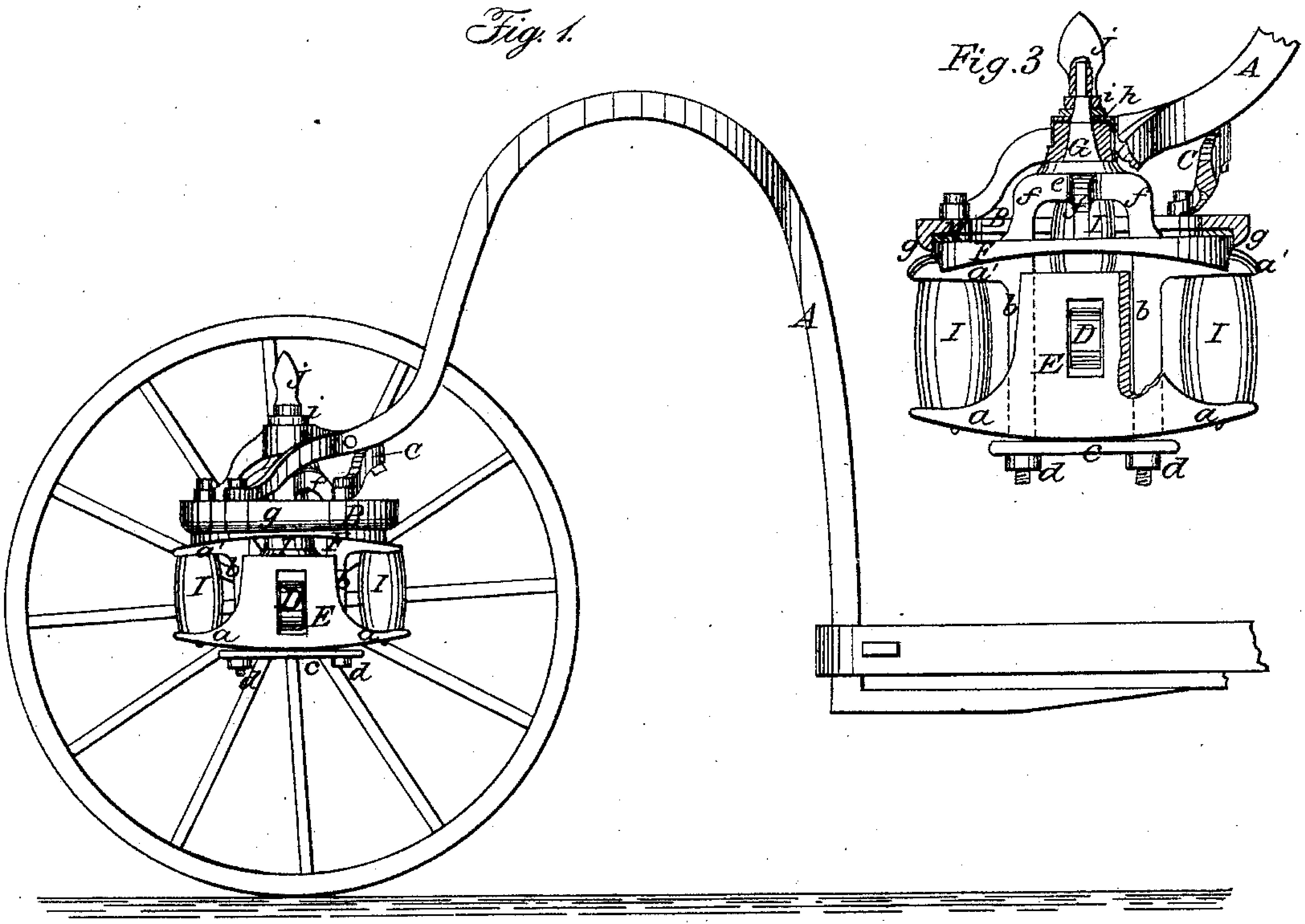
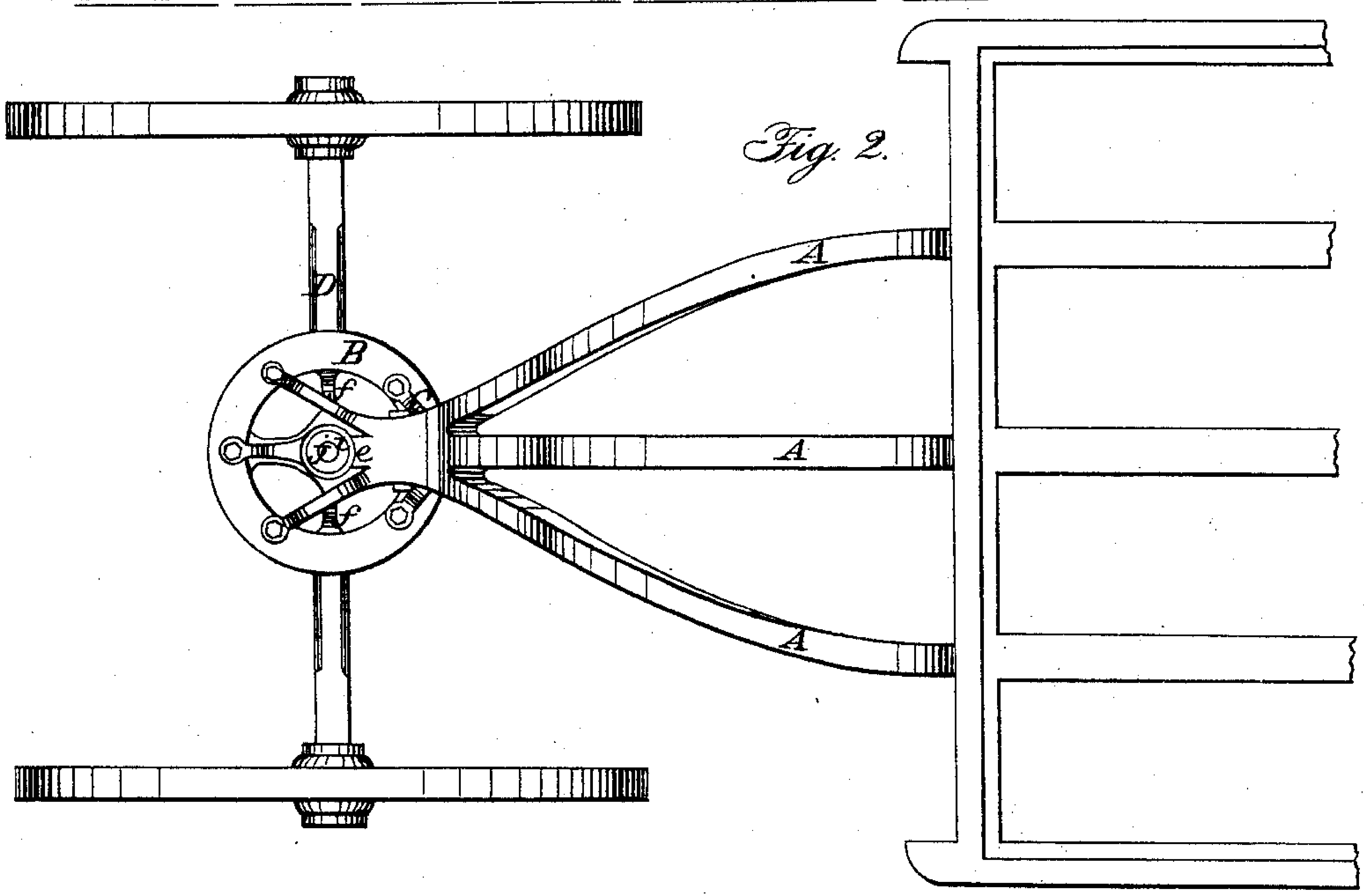


Fig. 2.



Witnesses:

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ASA. E. HOVEY, OF WEST WATERFORD, VERMONT.

Letters Patent No. 62,420, *dated February* 26, 1867.

IMPROVEMENT IN TRUCKS.

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, ASA E. HOVEY, of West Waterford, in the county of Caledonia, and State of Vermont, have invented a new and useful Improvement in Trucks; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention.

Figure 2, a plan or top view of the same.

Figure 3, a detached and enlarged side view of the fifth wheel pertaining to the same.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in the construction of trucks, and is more especially applicable to that class known as the "California crane-neck trucks." The invention has for its object simplicity and economy in construction, with suitable springs, and all so arranged that the truck may pass over rough ground with the greatest ease.

A represents the crane-necks of the truck, the front ends of which are connected together by welding or bolting, either or both. These crane-necks diverge from each other from their front to their rear ends, as shown in fig. 2, the body or framing of the truck being on the rear ends or parts of the crane-necks. The front ends of the crane-necks are drawn down and secured to an annular plate, B, which is braced from the front ends of the crane-necks by a rod, C, secured by proper bolts. D represents the front axle, which is secured in a yoke, E, by a horizontal king-bolt which admits of the axle-tree working in a vertical plane, and allows the wheels to pass with ease over rough or uneven ground. The yoke E is of malleable cast iron, and is provided with horizontal projecting ears, *a a*, at its lower end, and its sides are provided with grooves to receive the vertical bars *b b* which extend down from an annular plate, F; said bars, *b b*, passing through the lower part of the yoke E, and through a malleable cast-iron plate, *c*, and having screw-nuts, *d*, upon them. G is a wrought-iron pin, which is supported by a malleable cast-iron hub, *e*, connected with the plate F by supports *f*. This plate F, supports *f*, and bars *b b*, may all be of cast iron cast in one piece, and made malleable in order to avoid breaking. The pin G is placed in the mould, and the hub *e* cast around it. The annular plate B is of malleable cast iron, and it is cast with a pendent flange, *g*, all around it, within which flange the annular plate F is fitted, a brass washer, H, being interposed between. The pin G passes up through an eye formed in the front part of the central crane-neck A, and has suitable washers *h*, nuts *i*, and a cap, *j*, upon it, as shown clearly in figs. 1 and 3. I I I represent India-rubber springs, two of which are interposed between the ears *a a* at the lower end of the yoke E, and corresponding ears *a' a'* on the plate F, the other spring being between the top of the yoke E and the lower end of the hub *e*.

By this arrangement good and efficient springs are obtained at a very moderate cost, and also a strong and durable fifth wheel. By having certain parts, specified, of malleable cast iron, the cost of construction is rendered very moderate.

I claim as new, and desire to secure by Letters Patent—

The annular plate B, provided with a pendent flange, *g*, and connected to the front ends of the crane-necks A, in combination with the annular plate F, provided with the bars *b b* and the pin G, the yoke E with the axle D fitted within it, all constructed and arranged substantially as and for the purpose herein set forth.

I further claim the India-rubber springs I, when combined and arranged with the parts above specified, substantially as and for the purpose set forth.

ASA E. HOVEY.

Witnesses:

F. R. CARPENTER,

ABEL GOSS.