(No Model.)

H. L. KINGSLEY.

PLATFORM GEAR FOR WAGONS.

No. 247,364. Patented Sept. 20, 1881.

Fig. 1.

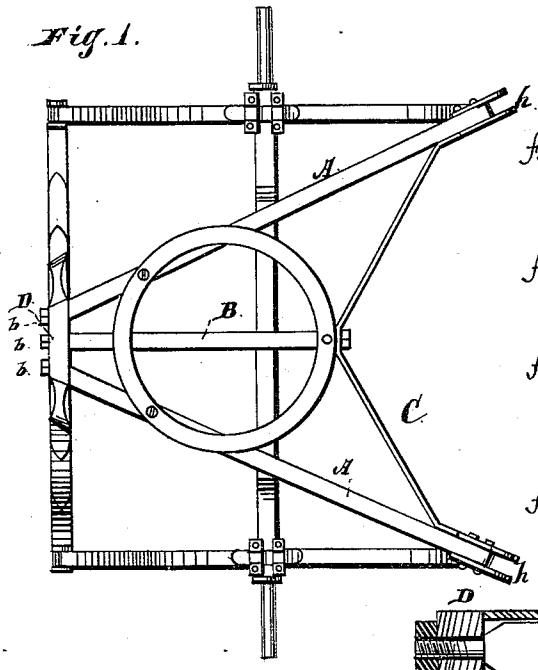


Fig. 7.

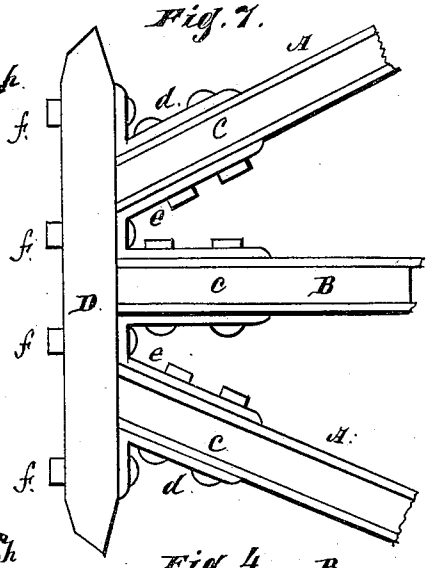


Fig. 4.

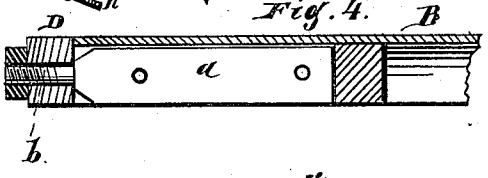


Fig. 2.

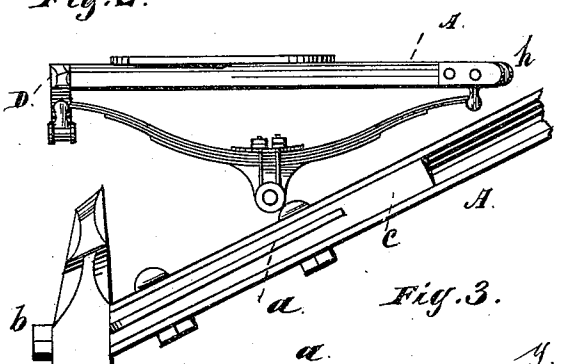


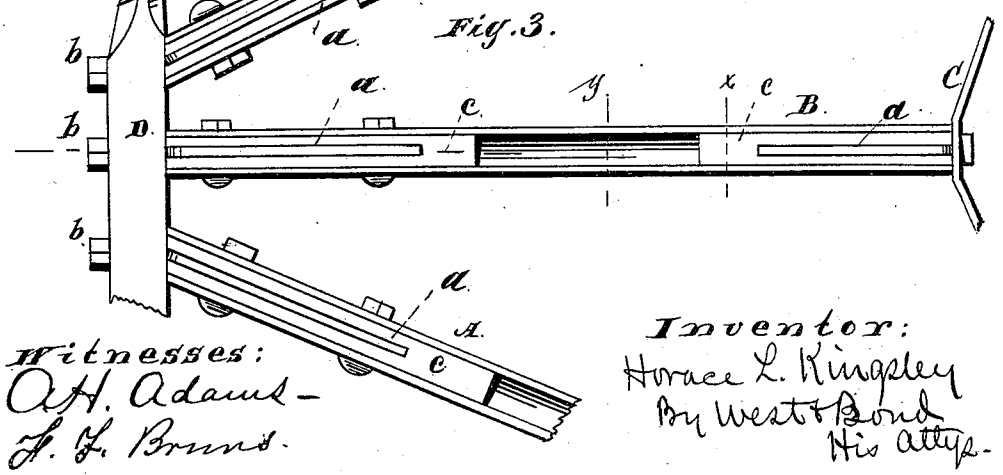
Fig. 5.



Fig. 6.



Fig. 3.



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UNITED STATES PATENT OFFICE.

HORACE L. KINGSLEY, OF RACINE, WISCONSIN.

PLATFORM-GEAR FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 247,364, dated September 20, 1881.

Application filed March 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, HORACE L. KINGSLEY, residing at Racine, in the county of Racine and State of Wisconsin, have invented a new and useful Improvement in Platform-Gears for Spring-Wagons, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan; Fig. 2, a side view. Fig. 3 is an under side view of the parts shown; Fig. 4, a detail; Fig. 5, a cross-section at line *x* of Fig. 3; Fig. 6, a cross-section at line *y* of Fig. 3; Fig. 7, a modification. Figs. 3 to 7 are enlarged.

My invention consists in a platform-gear the principal bars of which are of metal, in U form, secured at the ends, as hereinafter described and claimed.

In the drawings, A represents the two outside bars of the platform, which are made of iron, having an inverted U form, as shown in Figs. 3, 5, and 6. B is the short center bar, which, as shown, is made in the same manner. The front ends of these bars are supported by means of a brace-bar, C, and their rear ends fit against the inside of the head-block D. The end of the brace-bar C is bolted to the front ends of the side bars, A. The rear ends of the side bars, A, are, as shown in Figs. 3 and 4, secured to the head-block or bar D by means of a strap of iron, *a*, having a screw-bolt, *b*, upon one end. These straps *a* are placed between the walls of the bars and bolted in place, the space on each side of the strap, and between it and the wall, being filled with wood *c* or other suitable material. The bolts pass through the bars D, and by means of nuts the ends of the bar A are drawn into close contact with such bar D. The center bar, B, is secured at both ends in the same manner.

In Fig. 7 I have the same parts A B C D secured together by straps of iron and bolts, which, though somewhat different in construction, perform the same office as the straps and bolts already described. As shown in Fig. 7, each bar is connected to the bar D by means of two iron straps and bolts. *a* represents one of these straps on the outside of each bar A, bent so as to fit against both A and D; and *e* represents other irons, formed, as shown, so as to fit on the inside of and between the bars A and B, and to come in contact, also, with the inside of the bar D. These irons are bolted to the bars A B, and are also bolted to the bar D by means of bolts *f*. When irons like *d e* are used I fit pieces of wood or other suitable material into the ends of the bars A B. The front end of the bar B can be secured to the bar C by means of a single strap, as shown in Fig. 1; or two straps may be used, one on each side. *h h* are suitable pole-irons. The bearing-circle of the fifth-wheel is bolted directly on the bars A A B, and thus firmly supported at three nearly equidistant points.

I have shown an axle with the springs on which the platform is supported.

This construction furnishes a platform-gear of light and durable character. The filling-pieces *c*, in connection with the cross-bolts and bolts *b*, insure durable and substantial connection of the U-form bars, and a rigid frame is formed having the upper surface of its bars level for receiving the bearing-circle.

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

1. In a platform-gear for wagons, the bars A B, made U-shaped in cross-section, and provided at their ends with plates bolted to their walls for securing them to the head-block and brace, substantially as shown and described.

2. In a platform-gear for wagons, the bars A B, made U-shaped in cross-section, and provided with the plates *a*, secured between its walls, substantially as and for the purpose set forth.

3. In platform-gear for wagons, the U-shaped bars A B, provided with filling-pieces *c*, and plates *a* at their ends, for connecting to the bar D and brace C, substantially as shown and described.

HORACE L. KINGSLEY.

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