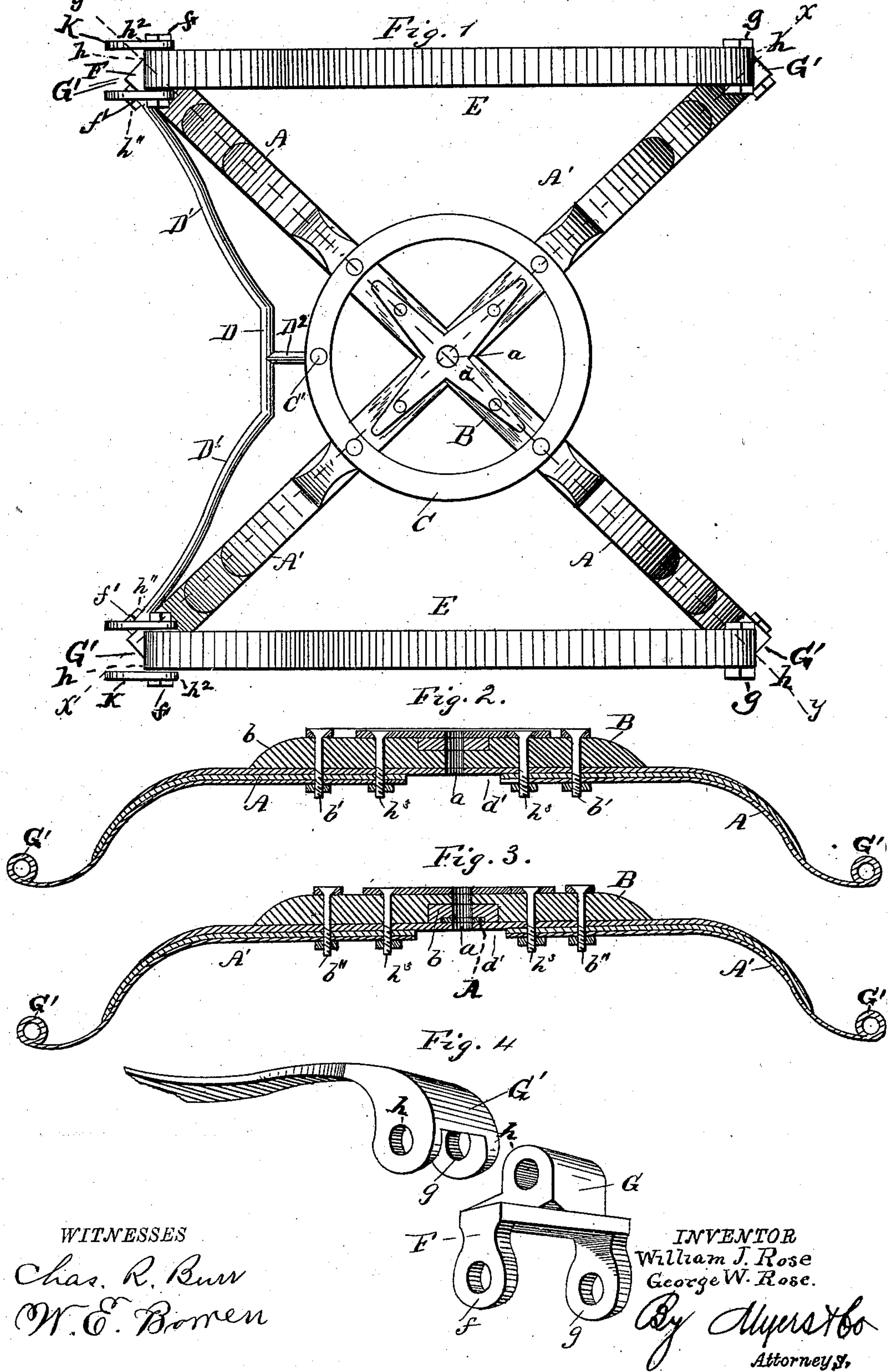


(No Model.)

W. J. & G. W. ROSE.
VEHICLE SPRING.

No. 290,934.

Patented Dec. 25, 1883.



UNITED STATES PATENT OFFICE.

WILLIAM J. ROSE AND GEORGE W. ROSE, OF HORSEHEADS, NEW YORK.

VEHICLE-SPRING.

SPECIFICATION forming part of Letters Patent No. 290,934, dated December 25, 1883.

Application filed October 8, 1883. (No model.)

To all whom it may concern:

Be it known that we, W. J. ROSE and GEORGE W. ROSE, citizens of the United States of America, residing at Horseheads, in the county of Chemung and State of New York, have invented certain new and useful Improvements in Vehicle-Springs, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to an improvement in vehicle-springs; and it consists in the crossed springs A and A', having mounted thereon the wooden platform B, whereon is secured the fifth-wheel C, having horizontal brace-bar D, cast integral with horizontal inclined brace-bars D', brace-plate d, side springs, E, and clips F, having cast integral therewith bolt-sockets G, substantially as hereinafter more fully shown and described.

In the drawings, Figure 1 is a plan view. Fig. 2 is a section on line *x x*. Fig. 3 is a section on line *y y*. Fig. 4 is a detail perspective of end of spring E and clip F.

In carrying out our invention we secure the wooden cross-platform B to the crossed right-angular springs A and A' by providing a recess in the bar *b* of the platform B, wherein spring A is secured by the vertical nutted bolts *b'*, the corresponding crossed spring, A', being secured to the same platform by the vertical bolts *b''*. The uppermost and intersecting leaves of the crossed springs have provided therein the vertical orifice *a* for reception of the king-bolt. The leaves of springs A and A' other than the uppermost do not cross or intersect, but are discontinued near the king-bolt orifice *a*, as shown in Figs. 2 and 3. The crossed springs A and A' are curved downward a short distance beyond platform B, and are then curved upward to form the spring bolt-sockets G'. The clips F have cast integral therewith bolt-sockets G, for reception, respectively, at front of bolts *f* and at rear of bolts *g'*, and the clips are adapted to receive the bolt-sockets G' formed by the ends of the curved cross-springs A and A', the side springs being provided at their ends

with the ears *h*, in which the bolts *f* are inserted which secures them to the clips. The bolts *f* also pass through the eyes *h*² of the thill-links K, and thus secure the thill-links to the bolt-sockets G. The horizontal brace-bar D is flattened at its end and secured to the fifth-wheel C by the nutted pin C', and it connects with the right-angular horizontal bar D², which is cast integral with the inclined bars D', and provided with eyes *h*², with which it is secured to the front clips, F, by bolts *f'*, and it not only additionally secures the fifth-wheel, but serves as an adjunct to the other springs. The metallic brace-plate *d* is provided with a central orifice, *a*, for reception of the king-bolt, and it is secured to the springs A and A' and the wooden platform B by the vertical nutted bolts *h*³.

Our vehicle-spring is in all respects very efficient, and it may be constructed at little cost.

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

1. In a vehicle-spring, the clip F, having socket G, for securing the crossed and side springs, constructed substantially as shown and described.

2. The combination of the cross-springs A and A', clip F, having socket G, and side springs, E, substantially as shown and described.

3. The combination of the cross-springs A and A', wooden platform B, and brace-plate *d*, substantially as shown, and for the purpose described.

4. The horizontal brace-bars D, cast integral with inclined bars D', secured to clips F and fifth-wheel C, and serving as an auxiliary to springs A and A', substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM J. ROSE.
GEORGE W. ROSE.

Witnesses:

JOHN BENNETT,
SAYER H. WERT.