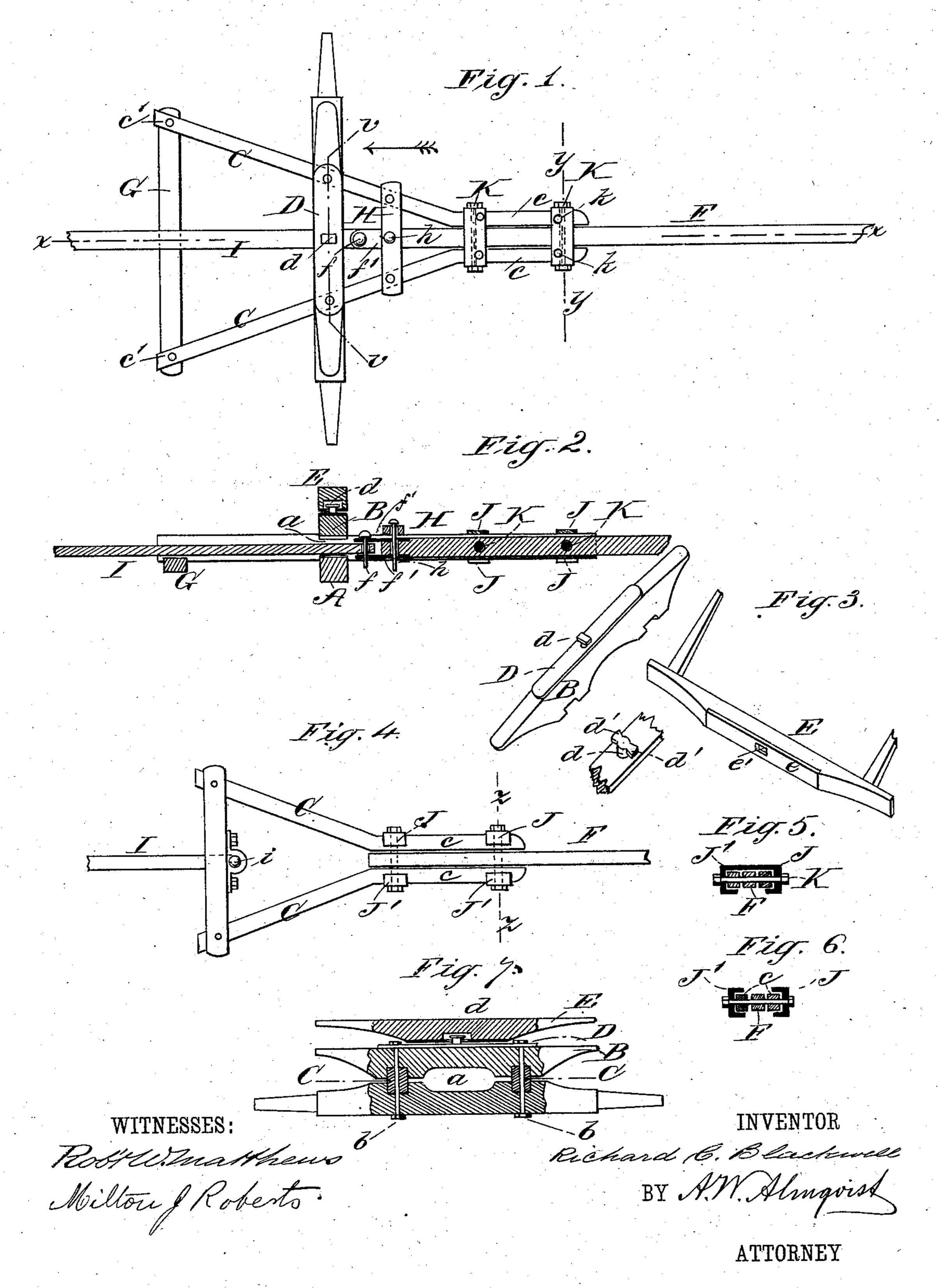
(No Model.)

R. C. BLACKWELL.

WAGON RUNNING GEAR.

No. 290,171

Patented Dec. 11, 1883.



United States Patent Office.

REISSUED

RICHARD CHAPMAN BLACKWELL, OF HENDERSON, KENTUCKY, ASSIGNOR OF ONE-FOURTH TO WILLIAM HENRY LEWIS, OF SAME PLACE.

WAGON RUNNING-GEAR.

SPECIFICATION forming part of Letters Patent No. 290,171, dated December 11, 1883.

Application filed July 3, 1882. Renewed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, RICHARD C. BLACK-WELL, a citizen of the United States, and resident of Henderson, in the county of Hender-5 son and State of Kentucky, have invented certain new and useful Improvements in Wagons, of which the following is a specification.

The object of my invention is to provide a strong and economical construction of wagons ro or vehicles, whereby the fifth-wheel or kingbolt as now arranged will be dispensed with, the tongue more rigidly fastened, the forward axle, head-block, and hounds rigidly and permanently secured together, and the bolster se-15 curely swiveled upon the head-block or sandboard.

My present improvement will be fully understood by the following description, with reference to the accompanying drawings, in 20 which—

Figure 1 represents a top or plan view of the front part of the wagon constructed according to my present invention. Fig. 2 is a longitudinal vertical section of the same, taken on 25 the line x x of Fig. 1. Fig. 3 is a detail perspective view of the head-block and bolster separated from each other, to better show the construction of the device for connecting them. Fig. 4 is a view similar to Fig. 1, showing a 30 modification in the manner of attaching the reach to the front part of the wagon. Figs. 5 and 6 are detail cross-sections taken through the lines yy of Fig. 1 and zz of Fig. 4, respectively. Fig. 7 is a vertical section taken 35 lengthwise of the bolster, head-block, and axle, through the lines v v of Fig. 1, as seen in the direction of the arrow.

Like letters of reference indicate like parts in the several figures.

A is the front axle of the wagon. B is the head-block, and C the hounds.

the head-block B, and provided with a central pin or lock-bolt, d, constructed, as will be 45 hereinafter described, for removably attaching the bolster E. The hounds C are fitted into recesses formed across the upper surface of the axle A and lower surface of the headblock B, respectively, as shown in Fig. 7, and 50 in the center between the said grooves the re-

spective upper and lower surfaces of the axle A and head-block B are cut away, so that between them is formed a central opening, a, for receiving the front end of the reach, and allowing the same to oscillate laterally in the 55 said opening. The plate D, head-block B, hounds C, and axle A are securely and rigidly fastened together by bolts b through the said four parts simultaneously, as shown in Fig.7.

On the upper end of the bolster-pivot d are 60 formed, in front and rear thereof, projecting lugs d', and to the under side of the bolster E is secured a plate, e, having centrally a longitudinal slot, e', whose length is a little in excess of the difference between the extreme 65 edges of the lip d', and whose width is smaller than its length, so that if the bolster E is placed at right angles to the head-block B with the central slot, e', upon the lock-bolt d, the latter will enter the slot e', allowing the bolster to 7csink down with its plate e resting upon the plate D, and the lips d' will then be above the upper or inner surface of the plate e, and, when the bolster E is turned in any other position than at right angles to the head-block, will 75 overlap the side edges of the slot e', and thus lock the bolster to the head-block, while allowing it to move freely on the pivot, and preventing its being taken off from the same, except by turning it in the position at right an- 80 gles to the head-block, as above stated, and then raising it.

Between the forward and parallel ends c of the hounds C the tongue F is inserted and secured, as will presently appear, and at the 85 rear ends, c', of the diverging portions of the hounds, and also in front of the axle A, the hounds are securely connected by cross-braces GH, respectively.

In order to rigidly fasten the tongue Fagainst 90 vertical as well as lateral deflection, I have pro-D is a bolster-plate, fastened on the top of | vided metallic clamps J J' embracing the top, bottom, and outer side surfaces of the front parts, c, of the hounds. These clamps JJ' are either made separate, as shown in Fig. 6, or 95 they are connected to the top or bottom of the tongue, (or both to the top and bottom,) and both made in one piece, as shown in Fig. 5. The bolt K is then inserted horizontally through the clamps J J', hound ends c, and tongue F, 100 securing all together simultaneously, as shown in Figs. 5 and 6. The rear end of the tongue | F is secured to the brace H by a bolt, h, and is provided on its upper and lower surfaces 5 with rearward-projecting plates f', forming lugs, between which is pivoted, by the kingbolt f, the forward end of the reach I. It is evident that by pivoting the reach in the center line of the wagon, but outside of the axle, to the head-block and front part of the wagon may be oscillated laterally, as usual, with relation to the rear part, without using for that purpose the ordinary fifth-wheel or king-bolt passing through A I B E simultaneously.

15 Instead of pivoting the forward end of the reach I to the rearward end of the tongue F, it may be pivoted between lugs i secured directly to the front (or the rear) side of the head-block and axle B A, as shown in Fig. 4. 20 It is evident that the reach can be pivoted also at the rear of the axle A by extending the rear end of the tongue F through the central opening a, but I prefer the construction shown. The encircling clamps J J' may be further fast-25 ened to the front ends, c, of the hounds by vertical bolts k, as shown in Fig. 1.

From the foregoing it will be seen that I have dispensed with the old mode of connecting the front and rear parts of a four-wheeled 30 vehicle by means of a king-bolt passing through the axle and coupling-pole or reach, the head-

block or sand-board, and bolster, simultaneously. I have also made the tongue of the wagon, or other four-wheeled vehicle, conveniently removable for storage or shipment, by 35 simply removing the bolts f h K K, which is a great advantage over vehicles with irremovable tongues as now made.

I am aware of Patent No. 158,667 of 1875, and the construction therein set forth is not 40 sought to be covered in this application.

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

1. The axle A, head-blocks B, with the interposed hounds C, and the plate D, having 45 bolster-pivot d, secured together by the bolts b, combined with the bolster E, having plate e, provided with recess e', as specified.

2. The combination of the axle A, headblock B, interposed hounds C, and the plate 50 D, having bolster-pivot d, secured together by the bolts b to form recess a, with the bolster E e e', the tongue F, and reach I, pivoted thereto forward of the axle, as set forth.

In testimony that I claim the foregoing as my 55 invention I have signed my name, in presence of two witnesses, this 22d day of June, 1882.

RICHARD CHAPMAN BLACKWELL.

Witnesses:

AARON F. KENNEDY, C. T. STARLING.