

David C. Doran

118115

PATENTED AUG 15 1871

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Double Perch & Fifth Wheel

Fig. 1

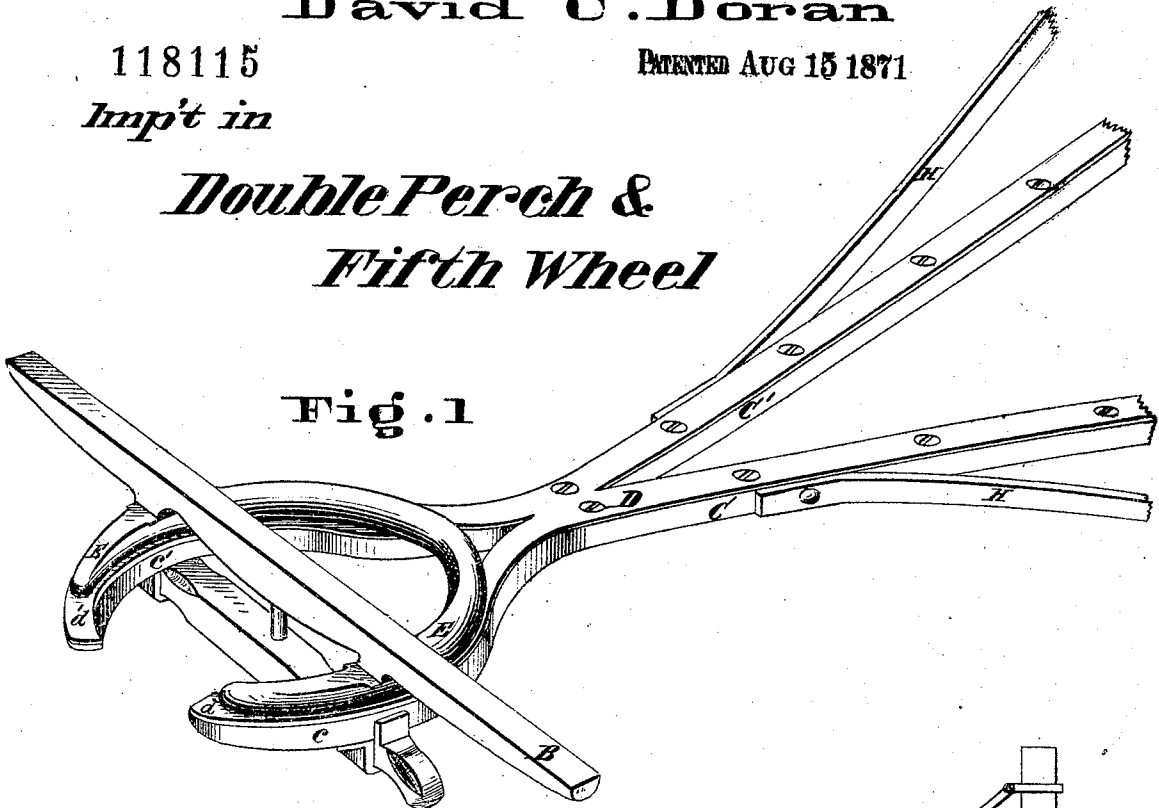


Fig. 2

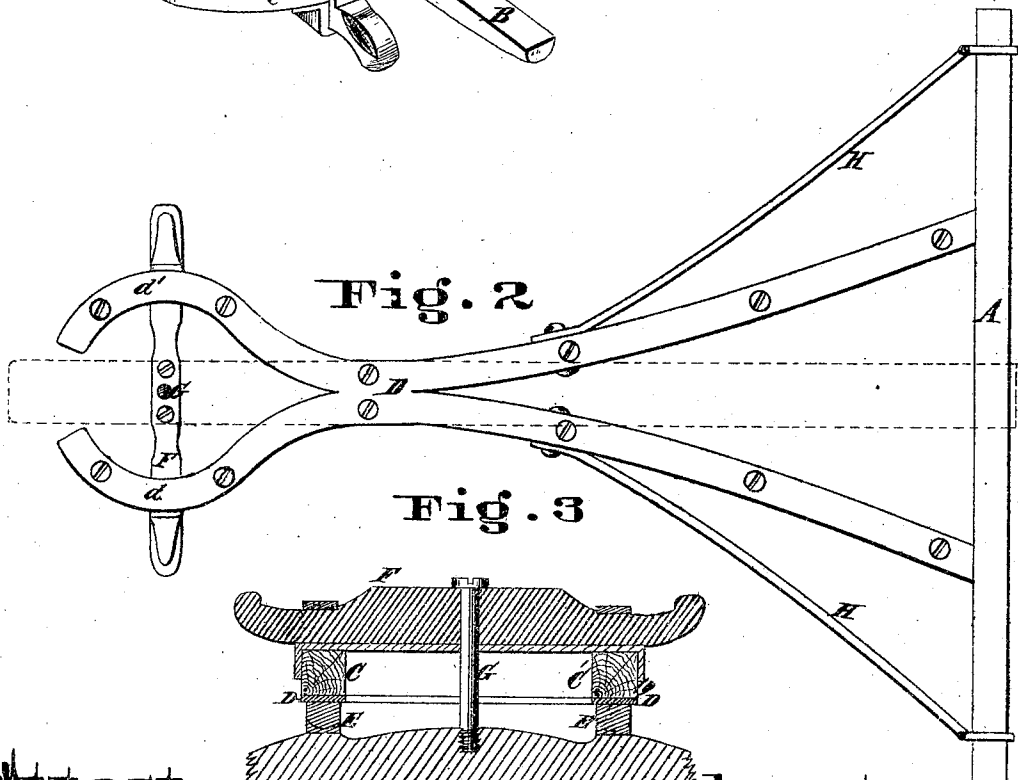
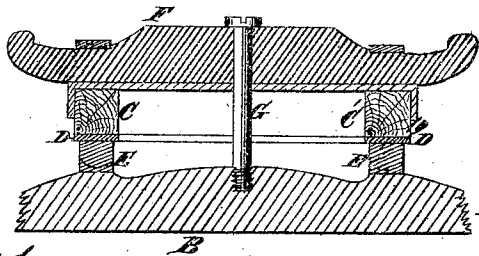


Fig. 3



Attest
Henry Millward
Clifford T. Tappan

Inventor
 David C. Doran
 By *H. Millward*
 Attorney

UNITED STATES PATENT OFFICE.

DAVID C. DORAN, OF MOUNT HEALTHY, OHIO.

IMPROVEMENT IN DOUBLE PERCHES AND FIFTH-WHEELS FOR CARRIAGES.

Specification forming part of Letters Patent No. 118,115, dated August 15, 1871.

To all whom it may concern:

Be it known that I, DAVID C. DORAN, of Mount Healthy, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Double Perch and Fifth-Wheel for Carriages, of which the following is a specification:

My invention consists of a peculiar formation of double perch and metallic facing of the same, by which each side of the perch forms a portion of the fifth-wheel, the sides also joining for stiffness between the fifth-wheel and rear axle, and the metallic facing serving the double purpose of connecting the two sides together and forming the stationary bearing, in contact with which the swiveling part of the fifth-wheel moves.

Figure 1 is a perspective view of my improved double perch and fifth-wheel, the view being of the under side. Fig. 2 is a plan of the under side. Fig. 3 is a cross-section.

A is the rear axle of the vehicle, and B the forward axle. C C' represent the two parts of the double perch, each part being bent by any preferred wood-bending process into such a shape that, when in position, it will come in contact with its fellow immediately in rear of the fifth-wheel, and also form a circular arc, *c* or *c'*, to make up the stationary part of the fifth-wheel. The parts C C' may approach each other closely in front or be separated a short distance, as shown in the drawing. The metallic facing D is made of a single bar of flat iron, shown in dotted lines

in Fig. 2, it being split front and rear, and spread on both sides to conform to the shape of the double perch. This facing is secured to the perch by common wood-screws, and serves to connect the parts of the perch firmly together, and also form the necessary metallic bearing-surface *d d'* on which the part E of the fifth-wheel rotates. The parts C C' are attached to the head F secured to the forward end of the vehicle, and the rotating part E is secured to the axle B. The two parts of the fifth-wheel are connected together by means of the king-bolt G in the usual way.

This form of double perch I have found to possess great elasticity and strength, and the peculiar construction of the same renders its manufacture simple and cheap.

Braces H may be employed between the sides C C' and the axle A to support the said axle.

I claim—

A double perch and fifth-wheel, formed by two bent wooden sides, C C', and bifurcated metallic facing D, connected substantially in the manner and for the purpose specified.

In testimony of which invention I hereunto set my hand.

DAVID C. DORAN.

Witnesses:

I. L. WARTMANN,
ELITHA F. LAYMAN.