(No Model.)

M. J. ROGERS.

FIFTH WHEEL.

No. 294,915. Patented Mar. 11, 1884.

Fig. 1.

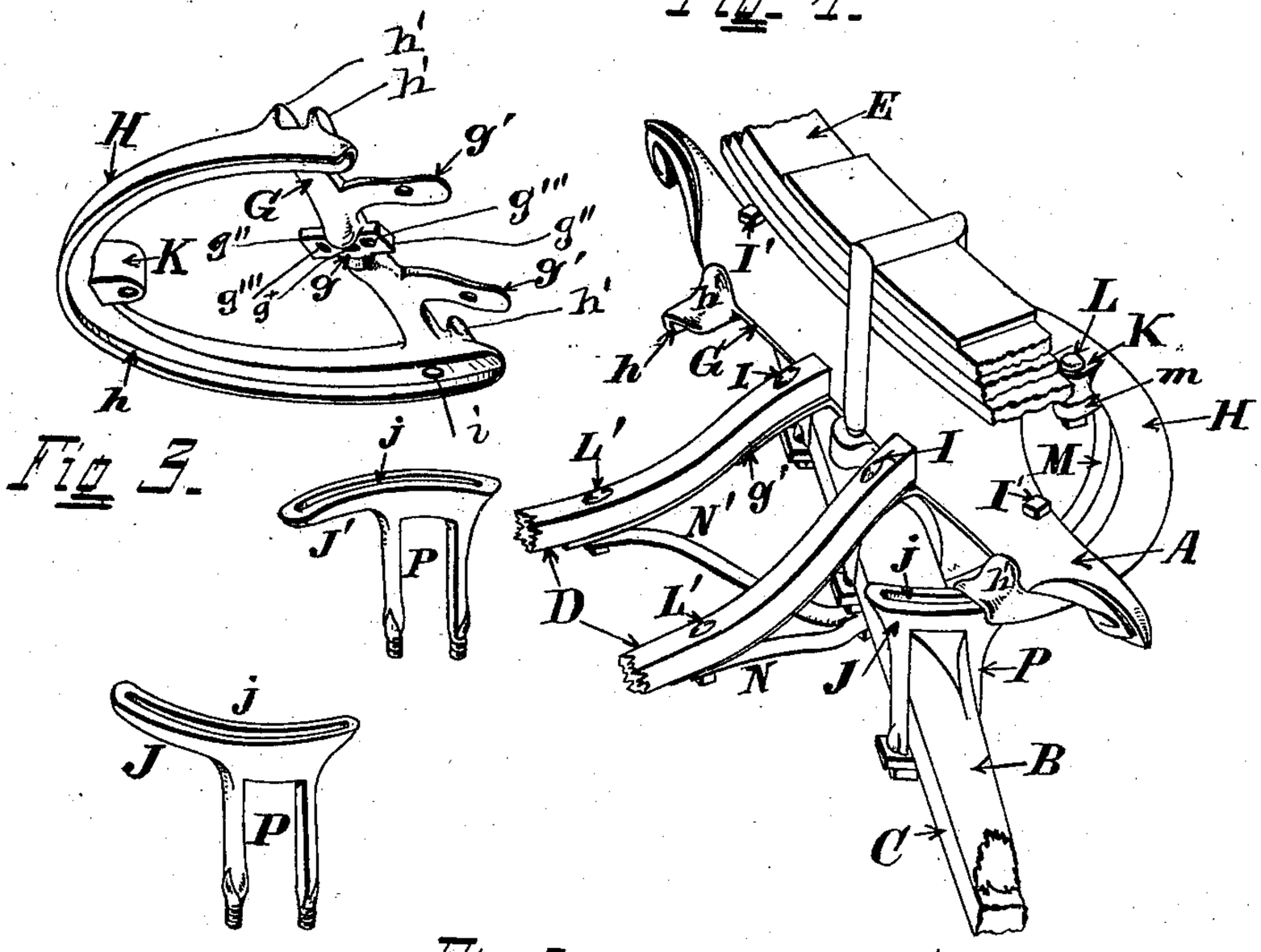


Fig. 3.

Fig. 2.

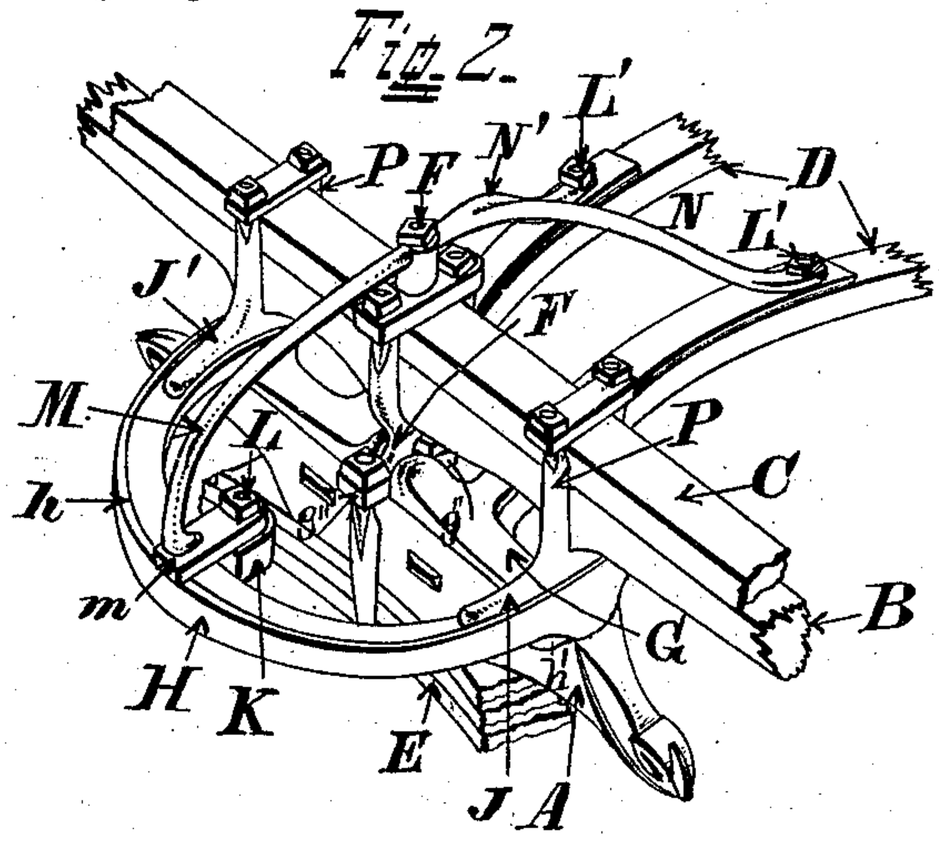
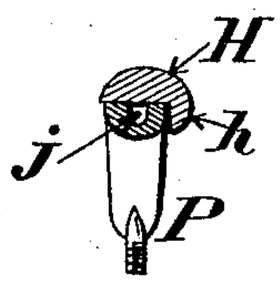


Fig. 4.



Attest
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UNITED STATES PATENT OFFICE.

MICHAEL J. ROGERS, OF CINCINNATI, OHIO, ASSIGNOR TO THOMAS T. HAYDOCK, OF SAME PLACE.

FIFTH-WHEEL.

SPECIFICATION forming part of Letters Patent No. 294,915, dated March 11, 1884.

Application filed September 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL J. ROGERS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Fifth-Wheels for Vehicles, of which the following is a specification.

My invention relates to that class of fifth-wheels whose upper member is provided with a flange to protect the lower portion.

My improvement consists in the construction hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a fifth-wheel embodying my improvement, and of accessory parts. Fig. 2 is an inverted view of the same. Fig. 3 shows the members of my fifth-wheel detached. Fig. 4 is a transverse section of the two members in position.

A may represent any suitable head-block, and B C D E may respectively represent portions of any suitable axle-bed, axle, perch, and spring. The king-bolt F may, if desired, pass in the usual manner through a hole, $g^{\times}$, in the upper member of the fifth-wheel, and through the head-block and the lower half of the spring, but is preferably formed (like the king-bolt in Patent No. 283,139) with a dovetail head, which head occupies a correspondingly-formed socket, *g*, formed in the under side of the cross-bar G, that, being integrally cast with, unites diametrically the remote extremities of a semi-annular bar, H, having a downwardly-projecting peripheral flange or lip, *h*. Perforated tongues *g'*, which extend rearward from the bar G, receive bolts I, by which the casting G*gg'*H*h* is secured to the perch. Lugs *g''*, projecting from the rear and front of the socket, have perforations *g'''*, to receive the ends of the clip which secures the spring to the head-block. The portion H of the said casting is similarly perforated at *i* for bolts I', which fasten it to the head-block, the latter being received between projections *h'* on the portion or bar H.

The casting G*gg'*H*h* constitutes the upper member of my fifth-wheel. The lower member of the fifth-wheel consists, preferably, of two shorter annular segments, J J', that occupy the re-entrant angle formed by the under side of the semi-annular bar H and the rear side of its lip or flange *h*. Each bar J J' has a pair of downwardly-extending legs, P, by which it is fastened to the axle and axle-bed. The top of each bar J J' has a concentric groove or channel, *j*, to constitute a receptacle for oil or other lubricant.

In addition to the above-described features, I usually brace the upper member of my fifth-wheel by the means following: A lug, K, that projects from the concave edge of the upper member of the fifth-wheel at the mid-length thereof, is perforated for a bolt, L, that fastens a brace, M, which, extending rearward, embraces the king-bolt F, whence, still extending rearward, but in a bifurcated form, N N', it is secured to the perch by bolts L' L'. A shoulder, *m*, upon the brace M, coming in contact with the lip *h* of the member H, assists in the support of said member. Where used with a single perch, the brace is carried rearward without branching.

The upper member of the fifth-wheel is preferably of malleable, and the lower of forged, iron or of cast-steel.

I claim herein as new and of my invention—

The article of manufacture herein described, which consists in an upper member for fifth-wheels, having its semi-annular bar H formed in one piece with its cross-bar G, the annular bar having a downwardly-projecting peripheral lip, a brace-bolt lug, K, projections *h'*, to receive a head-block, and head-block bolt-holes *i* between the projections, and the cross-bar being located parallel with and beneath the head-block, and having rearwardly-extending tongues *g'*, formed with perch-bolt holes, the central king-bolt-head socket *g*, king-bolt hole $g^{\times}$, and lugs *g''*, having holes *g'''*, to receive the ends of the spring-clip, as set forth.

In testimony of which invention I hereunto set my hand.

MICHAEL J. ROGERS.

Attest:

GEO. H. KNIGHT,

S. S. CARPENTER.