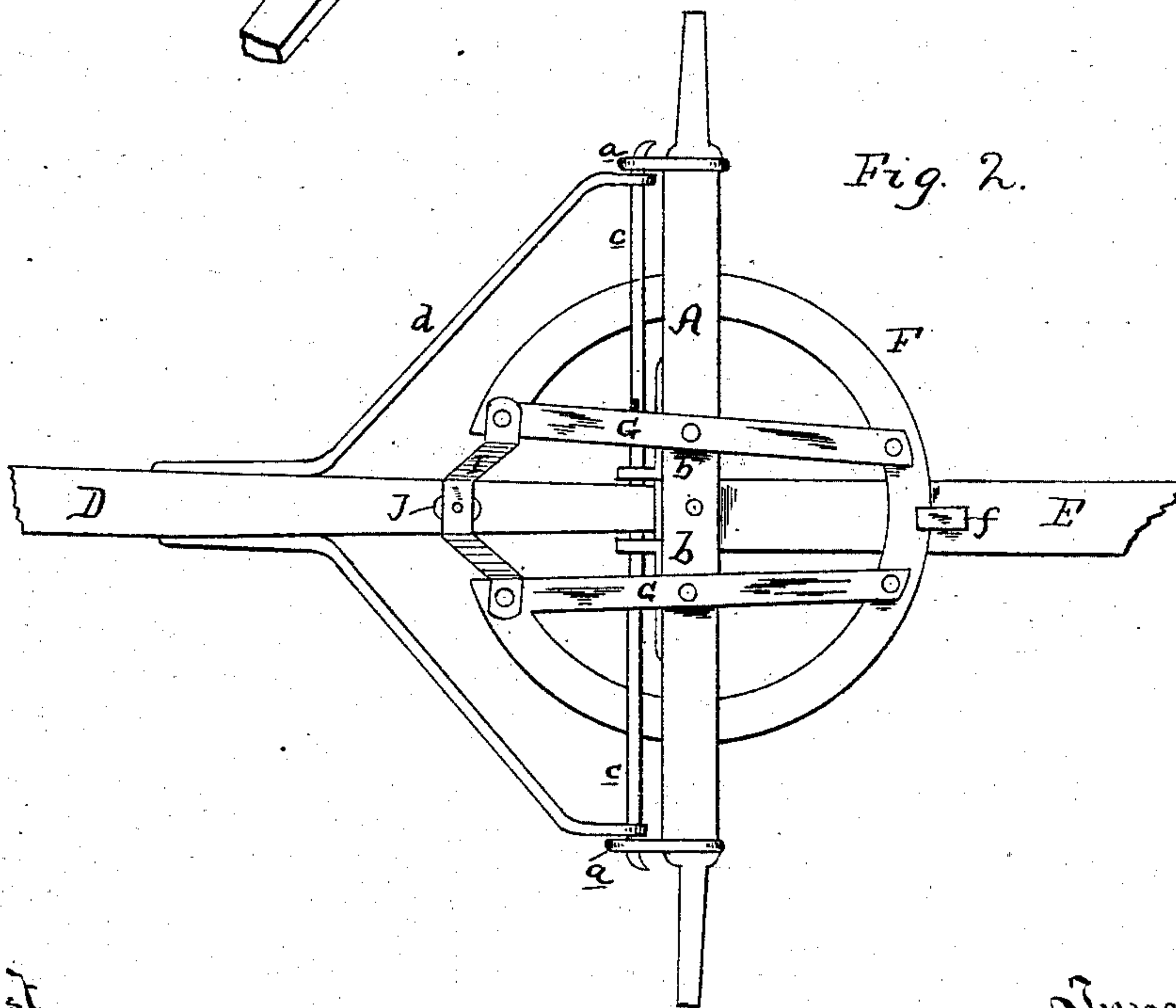
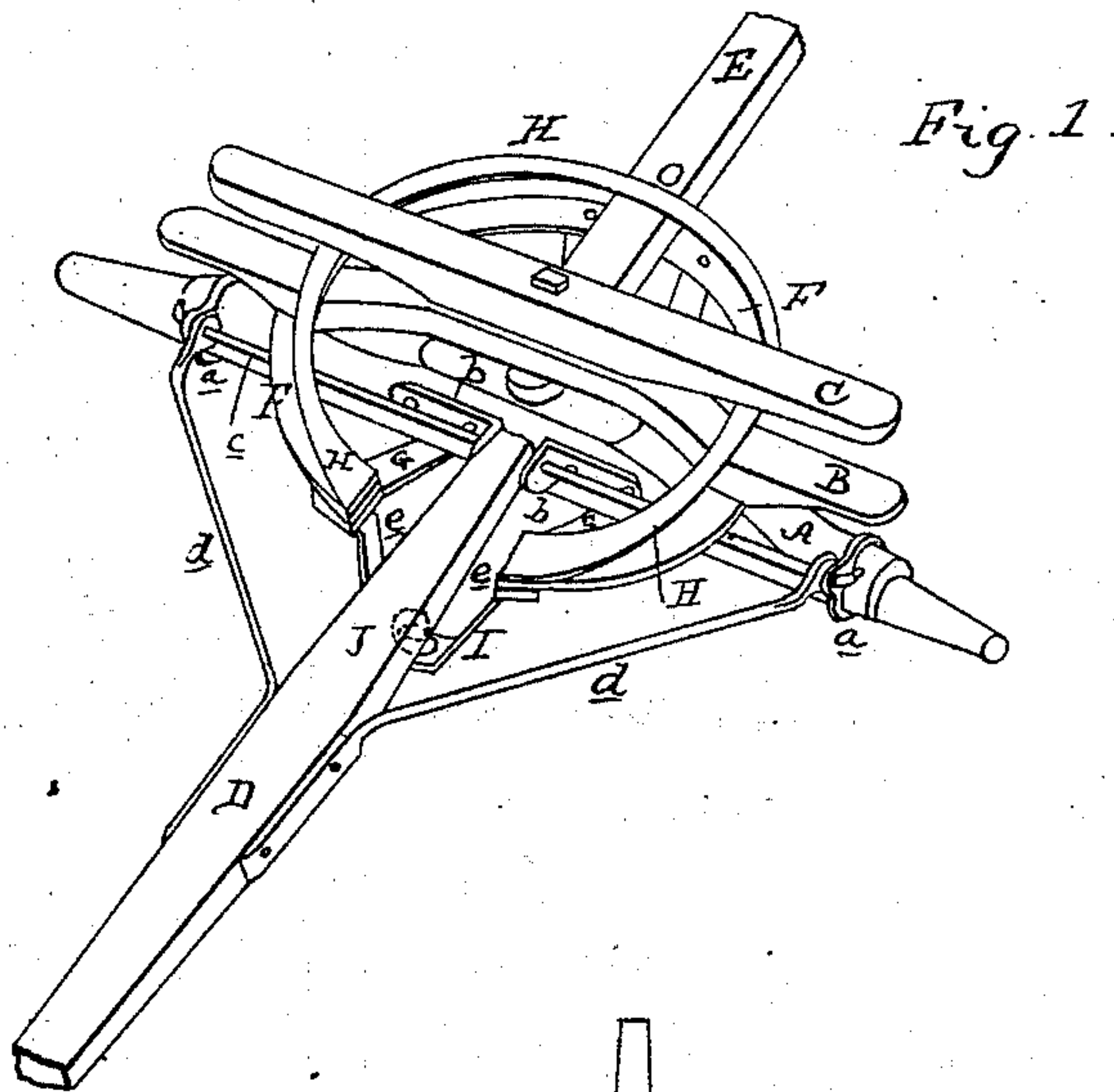


(No Model.)

A. H. & R. H. BEACH.
RUNNING GEAR FOR WAGONS.

No. 282,486.

Patented Aug. 7, 1883.



Attest.
W. Sprague
C. Scully

Inventor,
Alexander H. Beach,
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Atty.

UNITED STATES PATENT OFFICE.

ALEXANDER H. BEACH AND RALPH H. BEACH, OF FLINT, MICHIGAN.

RUNNING-GEAR FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 282,486, dated August 7, 1883.

Application filed April 19, 1883. (No model.)

To all whom it may concern:

Be it known that we, ALEXANDER H. BEACH and RALPH H. BEACH, of Flint, in the county of Genesee and State of Michigan, have invented new and useful Improvements in Running-Gears for Wagons; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in running-gears for wagons, by means of which any roll of the front axle is provided against, while at the same time all the requisite strength is retained.

The invention consists, first, in the peculiar construction of the fifth-wheel and the method of securing the sand-board and reach; second, in the peculiar manner of attaching the tongue, by means of which a center draft is obtained upon the axis of the axle and upon the shoulder thereof; third, in the peculiar construction, combination, and operation of the parts, as more fully hereinafter described.

Figure 1 is a perspective view of the front axle of a wagon with its attachments. Fig. 2 is a bottom plan view of the same.

In the accompanying drawings, which form a part of this specification, A represents the axle, B the sand-board, C the bolster, D the tongue or pole, E the reach, all of which are of the usual construction and adaptation, except as hereinafter specified.

Clips *a* are secured to the axle, near each shoulder of the same, and clips *b* to the center of the axle and in front thereof and a rod, *c*, passes through such clips (which are coincident with each other) and through the eyes at the rear end of the draw-bars *d*, and through the rear end of the tongue D, the forward ends of said draw-bars being bolted to either side of the tongue, as shown.

F is the fifth-wheel or circle, the front portion of which is cut out, as at *e*, to allow the tongue to be raised and lowered without interfering with or striking the circle. This

circle rests upon the top of the axle, and the reach is adjustably secured thereto by means of the L-shaped clip *f* on said reach, the overhanging part of which engages with the under face of said wheel. The front and rear portions of this fifth-wheel are supported and held in place upon the braces G, the ends of which are secured to the front and rear portions of the circle and pass under the axle, to which they are properly bolted.

H is a re-enforcement of the circle, the front of which is rigidly bolted to the front of the circle at either side of its cut-away portion, and from these points this re-enforcement rises or curves upwardly and passes above the sand-board and between it and the bolster, and its rear portion rises upon the upper side of the reach, acting as a brace to counteract the roll of the axle. In order to take the strain off the neck of the team, which would otherwise occur, we secure a stirrup, I, to the front and cut-away portion of the fifth-wheel, this stirrup, projecting downward below the pole and supporting a spring, J, upon which the pole rests, so that when the team is disengaged the pole will remain in a very nearly horizontal position.

What we claim as our invention is—

1. In combination with the axle A, having clips *a a* at the shoulders, and clips *b b* upon either side of the center, and the fifth-wheel F cut away, as shown, the tongue J, operating within the cut-away portion of the fifth-wheel and between the clips *b b*, the draw-bars *d* and the rod *c*, passing through all the clips, and serving as a single pivot for both tongue and draw-bars, as set forth.

2. In a wagon running-gear, the combination of the circle cut out, as at *e*, stirrup I, and spring J, for the purpose of supporting the tongue, substantially as set forth.

ALEXANDER H. BEACH,
RALPH H. BEACH.

Witnesses:

JNO. S. YOUNGS,
A. J. ADAMS.