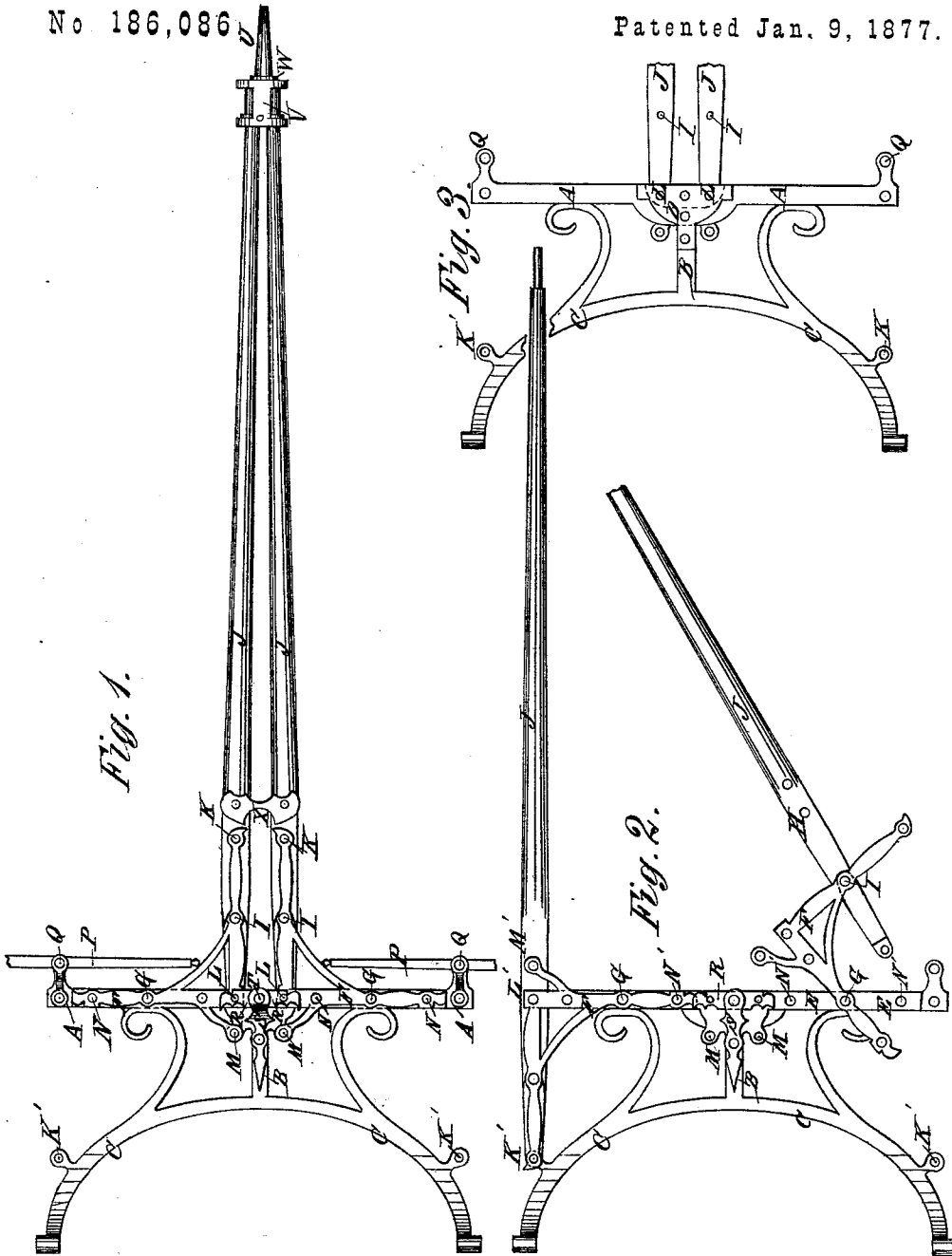


W. H. HITESHEW.

COMBINED POLE AND SHAFT.

No 186,086

Patented Jan. 9, 1877.



WITNESSES:

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INVENTOR:

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WILLIAM H. HITESHEW, OF PERU, INDIANA.

IMPROVEMENT IN COMBINED POLE AND SHAFTS.

Specification forming part of Letters Patent No. **186,086**, dated January 9, 1877; application filed August 14, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. HITESHEW, of Peru, in the county of Miami and State of Indiana, have invented a new and Improved Combined Pole and Shaft Apparatus for Carriages, of which the following is a specification:

My invention is a contrivance of the shafts and their connecting devices whereby they may be readily shifted into suitable position for forming a pole for two horses.

Figure 1 is a plan view of my improved apparatus arranged for use as a pole. Fig. 2 is a plan view, showing one of the shafts in position for use as such, and the other in process of shifting. Fig. 3 is a detail in plan view.

Similar letters of reference indicate corresponding parts.

A is the double-tree, which is pivoted to the tongue B of the hounds C at D, and located under a rigid cross-bar, E, to which the angle-braces F are pivoted at G, and a shaft, J, is pivoted to each brace at I, so that it can swing around to the center, as in Fig. 1, for use as a pole, or to the side, as in Fig. 2, for a shaft, the brace being in the former case bolted to the shaft at K, to the shaft and the cross-bar E at L, to the cross-bar at N, and to the hounds at M, and in the latter case bolted to the shaft at L' M', to the shaft and the hounds at K', and to the cross-bar at N'. The whiffletrees P are attached to the evener A at Q,

when the shafts are used as in Fig. 1, and the angle-braces are bolted at the angle between the clip R and the cross-bar E, the clip being secured under the stay S for the evener T in such case, but being removed when the evener is put in for the shafts.

The shafts are connected at the outer ends, when used as a pole, by the metal point U, which has a kind of double clamp-socket, V, that slips onto the ends of the poles, and fastens by an eccentric ring, W, a bolt, or other device. The shafts are also connected together in this position by the plate X.

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

1. The combination of the angle-brace F, cross-bar E, shaft J, and hounds C, substantially as specified.

2. The evener A, cross-bar E, angle-braces F, and shaft J, combined and arranged substantially as specified.

3. The angle-braces pivoted to the cross-bar at G and to the tongue at I, and arranged, for bolting to the tongue, cross-bar, and the hounds, substantially as specified.

4. The combination of the point U and clamp V with the shaft J, substantially as specified.

WILLIAM HENRY HITESHEW.

Witnesses:

JOHN M. JACKSON,
WILLIAM W. HITESHEW.