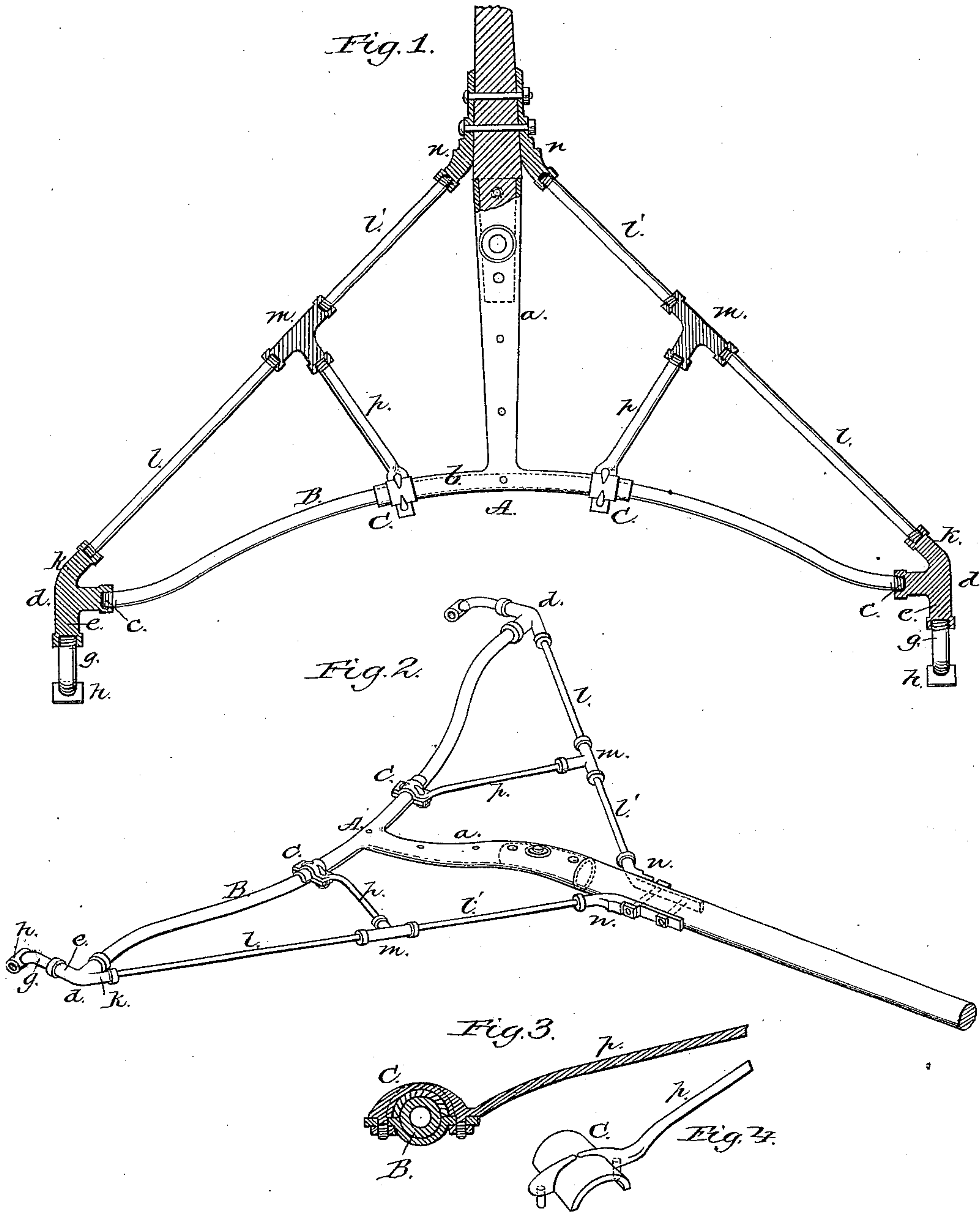


(No Model.)

H. H. RICHARDS.
VEHICLE POLE.

No. 253,170.

Patented Jan. 31, 1882.



WITNESSES

Villette Anderson,
Philip C. Mass.

INVENTOR

H. H. Richards,
by Anderson & Smith
his ATTORNEYS

UNITED STATES PATENT OFFICE.

HEZEKIAH H. RICHARDS, OF RACINE, WISCONSIN, ASSIGNOR OF ONE-HALF
TO HENRY W. HURLBUT AND ANTHONY McAVOY, OF SAME PLACE.

VEHICLE-POLE.

SPECIFICATION forming part of Letters Patent No. 253,170, dated January 31, 1882.

Application filed November 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, HEZEKIAH H. RICHARDS, a citizen of the United States, resident at Racine, in the county of Racine and State of Wisconsin, have invented a new and valuable Improvement in Vehicle-Poles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view, parts shown in section. Fig. 2 is a perspective view, and Figs. 3 and 4 are detail views of the clip.

This invention has relation to carriage-poles; and it consists in the construction and novel arrangement of the T-shaped curved sleeve covering a portion of the pole, the circle-bar, the tapped couplings, the clips connecting the sleeve and circle-bar, the braces running from the pole to the ends of the circle-bar, and the short braces extending from the clips to the braces first mentioned, all as hereinafter set forth, and especially pointed out in the claims appended.

In the annexed drawings, the letter A designates a curved metallic sleeve, made in T form and partially covering the pole at the end, the forward portion, *a*, fitting the end of the pole neatly and being bolted thereto, and the rear portion, *b*, extending transversely and fitting over the circle-bar B at its center, and being secured thereto by the clips C. The circle-bar extends outward and backward in curved form, as indicated in the drawings, its ends being threaded at *c* to receive the middle branch of the end coupling, *d*. This coupling is also provided with a rear branch, *e*, to which the stem *g* of the eye *h* is secured, and with an oblique forward branch, *k*, to which the rear end of the brace-rod *l* is attached. The branch sockets of the couplings are threaded, and the stem *g* and brace-rod *l* are threaded to engage therewith. Each brace-rod *l* extends forward and inward obliquely, and a T-form

screw-coupling, *m*, is secured to its front end, said coupling also receiving the rear end of a brace-rod, *l'*, which extends in line with the brace *l*, and is secured to the side of the pole by the coupling *n*, which is made in obtuse-angular form, as indicated in the drawings. Each clip C is provided with short brace or brace-arm *p*, which extends forward and outward obliquely, and is connected to the braces *l* and *l'* by means of the middle branch or socket of the coupling *m*, into which its end is screwed.

The circle-bar B is usually made of tubular iron or gas-pipe; but a solid bar may be employed. The couplings are designed to be of wrought or malleable iron, tapped and connected with the threaded ends of the brace-rods, circle-bar, and eye-stems, as above described. In this manner a carriage-pole of great strength is readily and cheaply produced without forging the irons in the special angular form, as in the ordinary manner.

A T-shaped socket formed with flanges and elongated slots has been used in combination with a pole, pivoted sleeves or braces, and arms, the latter being adjustable within the socket, and this construction is not claimed herein.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The curved T-form metallic sleeve A, having the front portion, *a*, to receive the pole, and the rear transverse portion, *b*, to engage the circle-bar, substantially as specified.

2. The carriage-pole having the curved T-form metallic sleeve A, the circle-bar B, clip-braces *p*, and clips C, the braces *l* and *l'*, and stem-eyes *h*, and the screw-couplings *d*, *m*, and *n*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HEZEKIAH H. RICHARDS.

Witnesses:

THOMAS CLARK,
GEORGE BREMNER.