

C. GESTRING & J. S. FULLERTON.
 Vehicle-Axle Skeins.

No. 209,248.

Patented Oct. 22, 1878.

FIG. 1.

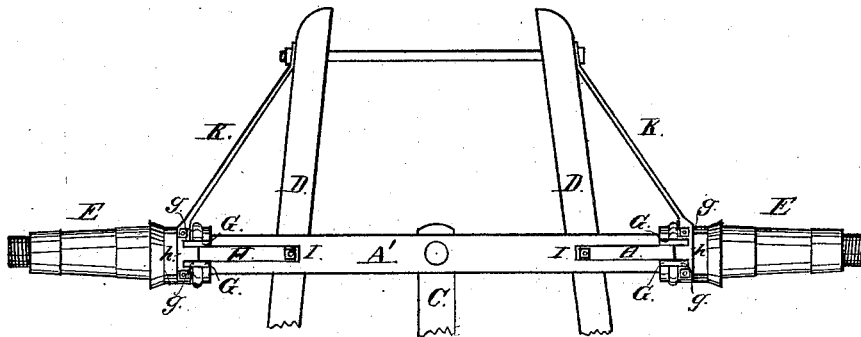
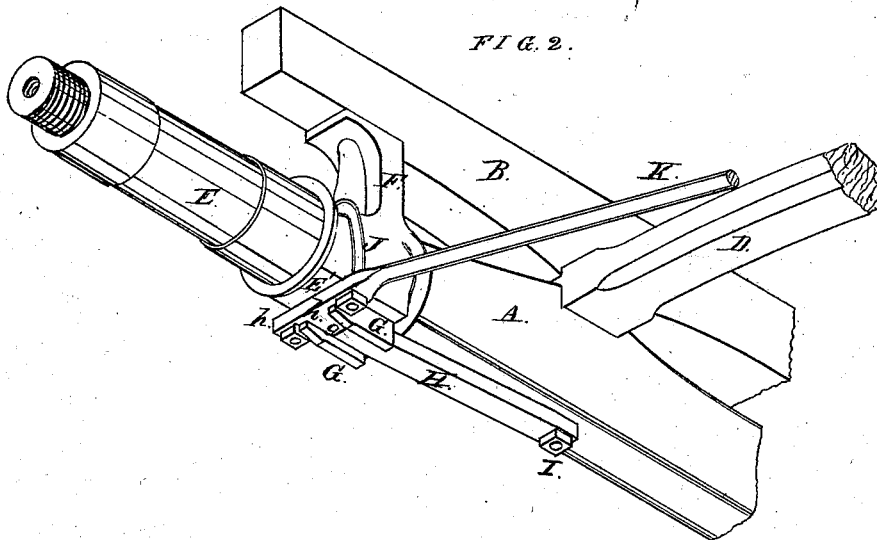


FIG. 2.



Witnesses:

Geo. H. Knight.
 Walter Allen

Inventors:

Casper Gestring
 James B. Fullerton
 By Knight & Co.
 Attys.

UNITED STATES PATENT OFFICE.

CASPER GESTRING AND JAMES S. FULLERTON, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN VEHICLE-AXLE SKEINS.

Specification forming part of Letters Patent No. **209,248**, dated October 22, 1878; application filed May 14, 1878.

To all whom it may concern:

Be it known that we, CASPER GESTRING and JAMES S. FULLERTON, both of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Wagon-Axles and Thimble-Skeins, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Our improvement relates to the connection of the thimble-skein to the axle, hounds, and reach; and it consists in two hooked lugs that are cast upon the skein, having between them a rectangular recess, in which fits the T-headed stay-bar. The inner end of this bar may be attached to the axle by a bolt that passes through the axle and hound, or the bar may extend across from skein to skein. The cross-bar at the outer end engages under the hooked ends of the lugs and forms the bridle-piece of the clip passing around the skeins. In the case of the hind axle one end of the cross-bar is extended forward to form the brace-connection to the hounds and reach, and in the front axle the bar connects with the tongue-hounds.

In the drawings, Figure 1 is an under view of the front axle. Fig. 2 is an under perspective view of one end of the rear axle.

A is the hind axle, and A' the front axle; B, the bolster or sand-board. C is the reach, and D the hounds. E E are the thimble-skeins, that may be made of usual pattern. I show them with a post or block, F, supporting the end of the sand-board. This post differs from that shown in the Wheeler patents for thimble-skeins, numbered, respectively, 123,135 and 162,729, as it is not attached in any manner directly to the sand-board; it merely forms a prop or support for the end of the board.

G G are two lugs cast upon the bottom of the thimble-skein. The inner faces are parallel, and between them is a rectangular channel, in which fits the stay-bar H. The stay-bar has a cross-head, *h*, which engages the

hooked ends *g g* of the lugs G, and rests against a flat part, *E'*, of the thimble-skein.

The inner end of the bar H is shown connected to the axle by a bolt, I, which passes vertically through the axle and the hound; but the two bars H may be made in one piece extending from skein to skein.

The cross-head *h* has holes for the passage of the screw-threaded ends of the clip J, which extends around the top of the skein, and is secured by nuts under the cross-head *h*.

K K represent brace-rods, which in the case of the hind axle are made in one piece with the cross-head and extended forward to the front ends of the hounds, where they are attached to the reach. In the case of the front axle the brace-rods are connected to the tongue-hounds.

The described connection of the thimble-skein and the stay-bar H is such that the skein is firmly braced by the bar against vertical and horizontal strain, as the bar fits tightly between the lugs, and also in hooks *g*.

We have shown the stay-bar H and rod K as of separate construction, and secured together by bolts. They may, however, be welded or otherwise made in one piece.

We claim as our invention—

1. The combination, with the thimble-skeins, of the two hooked lugs G and the T-headed stay-bar H, substantially as set forth.

2. The combination of the skein E with hooked lugs G and the T-formed stay-bar H of the clip J, secured to said bar and surrounding the thimble-skein.

3. The combination, with the T-formed stay-bar H, of the brace-rod K, substantially as set forth.

4. The combination of axle A, thimble-skeins E E, with hooked lugs G G, T-ended stay bar or bars H, and clips J, substantially as set forth.

CASPER GESTRING.
JAMES S. FULLERTON.

Witnesses:

SAML. KNIGHT,
JNO. GESTRING.