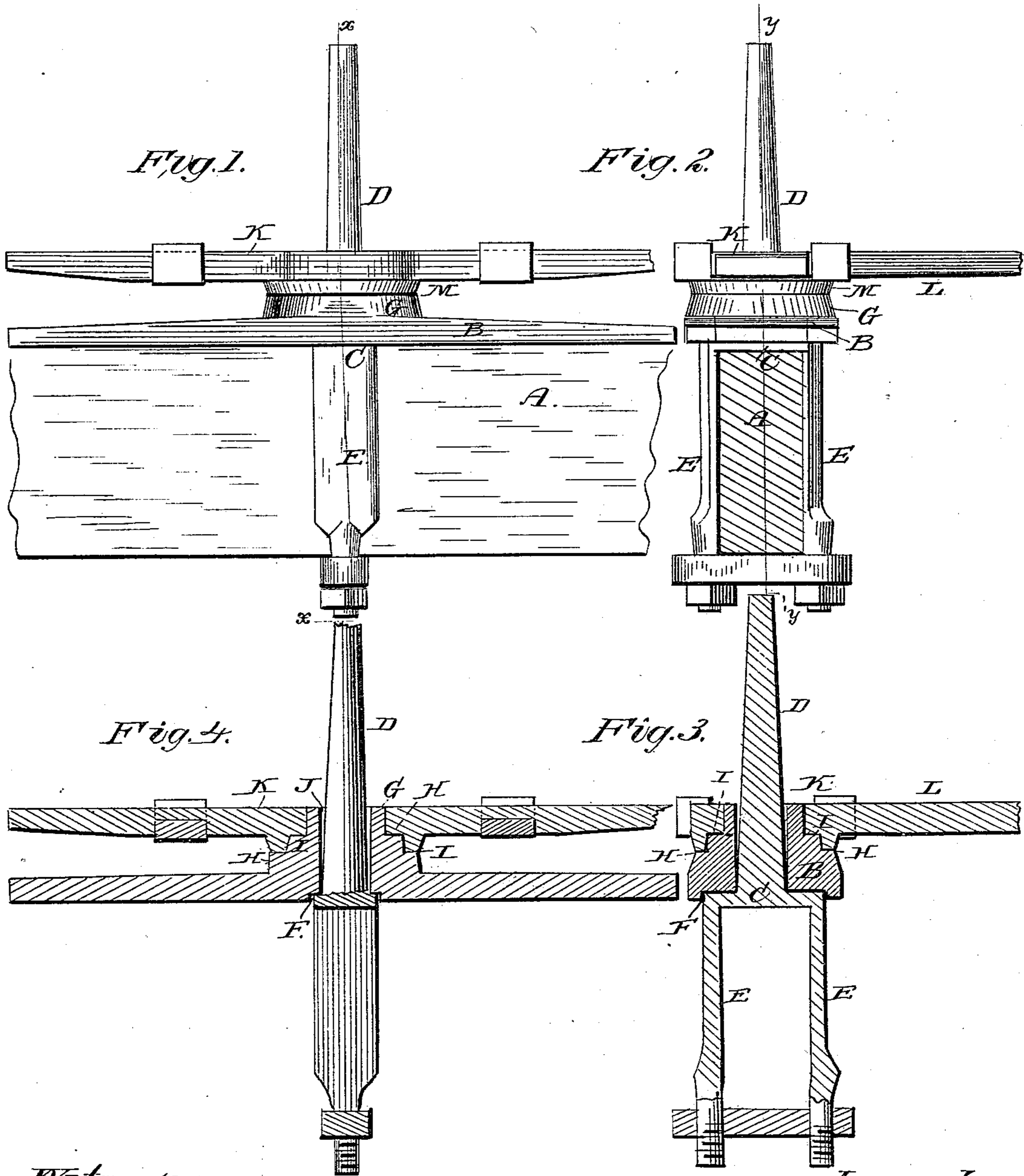


A. J. & J. A. REHKOPF.
King-Bolt for Vehicles.

No. 226,197.

Patented April 6, 1880.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALBERT J. REHKOPF AND JOHN A. REHKOPF, OF SIGOURNEY, IOWA.

KING-BOLT FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 226,197, dated April 6, 1880.

Application filed February 10, 1880.

To all whom it may concern:

Be it known that we, A. J. REHKOPF and J. A. REHKOPF, of Sigourney, in the county of Keokuk and State of Iowa, have invented certain new and useful Improvements in King-Bolts and Perches for Vehicles; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a front view. Fig. 2 is a side view. Fig. 3 is a vertical sectional view on the line *x x*, Fig. 1; and Fig. 4 is a sectional view on the line *y y*, Fig. 2.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved king-bolt and perch for vehicles, the object of which is to relieve the usual excessive strain upon the king-bolt, by which the latter is frequently caused to bend or break.

Our invention consists in the improved construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the annexed drawings, A represents the front axle of a buggy or other vehicle, on top of which the bottom plate, B, of our improved perch is secured by clips or in any other suitable manner.

C is a cross-piece fitted transversely upon the axle and provided with an upward projection, D, which forms the king-bolt, and downward projections E E, which form the clip by which the king-bolt is secured upon the axle. The lower side of plate B is pro-

vided with a recess, F, to accommodate the cross-piece C. Upon its upper side the plate B is provided with a collar, G, having shoulders H I and a central recess, J, for the admission of the king-bolt.

K is the upper perch-plate, which is provided with a rearward-projecting arm, L, to which the reach-plate is to be welded or otherwise secured. Upon its under side the plate K is provided with an annular collar, M, bearing upon the lower shoulder, H, of the collar G of plate B, the under side of plate K bearing upon the upper shoulder, I, of said collar, as shown.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of our invention will be readily understood. Strain or draft upon the king-bolt is, under all circumstances, impossible; nor can any displacement of the king-bolt occur.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

The combination of the king-bolt D, having clip C E E, plate B, having recess F and collar G, provided with shoulders H I, and the plate K, having collar M, all arranged and operating substantially as and for the purpose herein shown and specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

A. J. REHKOPF.
J. A. REHKOPF.

Witnesses:

W. J. GASTON,
CYRUS VERY.