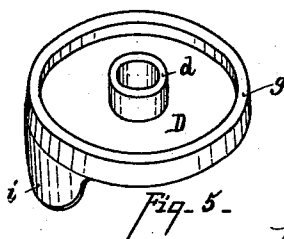
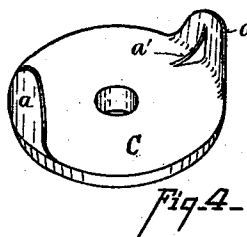
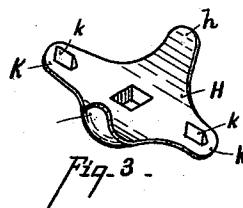
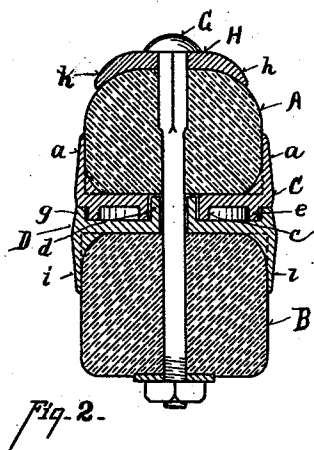
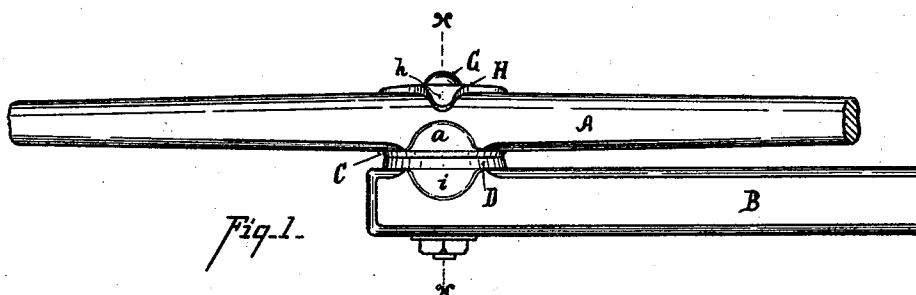


(No Model.)

W. J. KAUFFMAN.
SINGLE TREE COUPLING.

No. 542,892.

Patented July 16, 1895.



Attest—
C. Miles
Oliver D. Kaiser

Inventor—
William J. Kauffman
By Wood & Boyd
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM J. KAUFFMAN, OF MIAMISBURG, OHIO.

SINGLETREE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 542,892, dated July 16, 1895.

Application filed December 5, 1894. Serial No. 530,932. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. KAUFFMAN, residing at Miamisburg, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Singletree-Couplings, of which the following is a specification.

The object of my invention is to provide a strong and durable coupling for connecting a singletree to a doubletree or draw-bar. The through-bolt on which the singletree pivots weakens both singletree and doubletree and they are liable to split and to break. My invention avoids these liabilities.

The features of my invention will be more fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of my improvement in position for use. Fig. 2 is a section on line *x x*, Fig. 1. Fig. 3 is a perspective view of the singletree-cap. Fig. 4 is a perspective view of the singletree-bearing. Fig. 5 is a perspective view of the doubletree-step bearing.

A represents the singletree.

B represents the doubletree.

C represents the bearing-plate of the singletree. It is provided with lips or flanges *a*, which embrace the sides of the singletree.

a' represents ribs which are compressed into the wood and help to hold the bearing-plate in position. *e* represents the annular peripheral flange. *c* represents an inner circular flange. These parts engage with the bearing of the step-support in the following manner:

D represents the step, which is provided with lips *i*, which engage with the sides of the doubletree in the same manner as the lips *a* engage with the singletree. It is provided with a center hub *d*, which journals in the annular flange *c* of the upper coupling or bearing plate.

g represents an upwardly-projecting peripheral flange on the step-bearing D, which forms a journal for the downwardly-projecting flange *e* of the coupling-plate.

H represents a cap-plate. It is provided with the lips or flanges *h*, engaging the sides of the singletree and with the lugs or teats *k*, which are forced into the top of the singletree.

G represents a bolt which couples the parts together. This bolt passes loosely through the hub *d*. The bearing-plates C D journal one upon the other and are held laterally in position by means of the annular flanges before described.

This makes a very strong durable coupling, which is made cheap and easily applied. The use of it avoids the difficulty of splitting or breaking of the singletree and doubletree, occasioned by the use of the couplings hitherto employed.

I claim—

In a single-tree coupling, the combination with the single-tree and double-tree, of the step-bearing D having the hub *d*, upturned peripheral flange *g* and the lips *i*, the singletree bearing-plate C provided with inner and outer annular flanges *c e* on its under side and having on its upper side the lips *a* provided with ribs *a'*, the single-tree cap plate H provided with lips *h* and lugs *k*, and the through bolt G, all constructed and arranged substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand.

WILLIAM J. KAUFFMAN.

Witnesses:

W. A. REITER,
A. F. GWINNER.