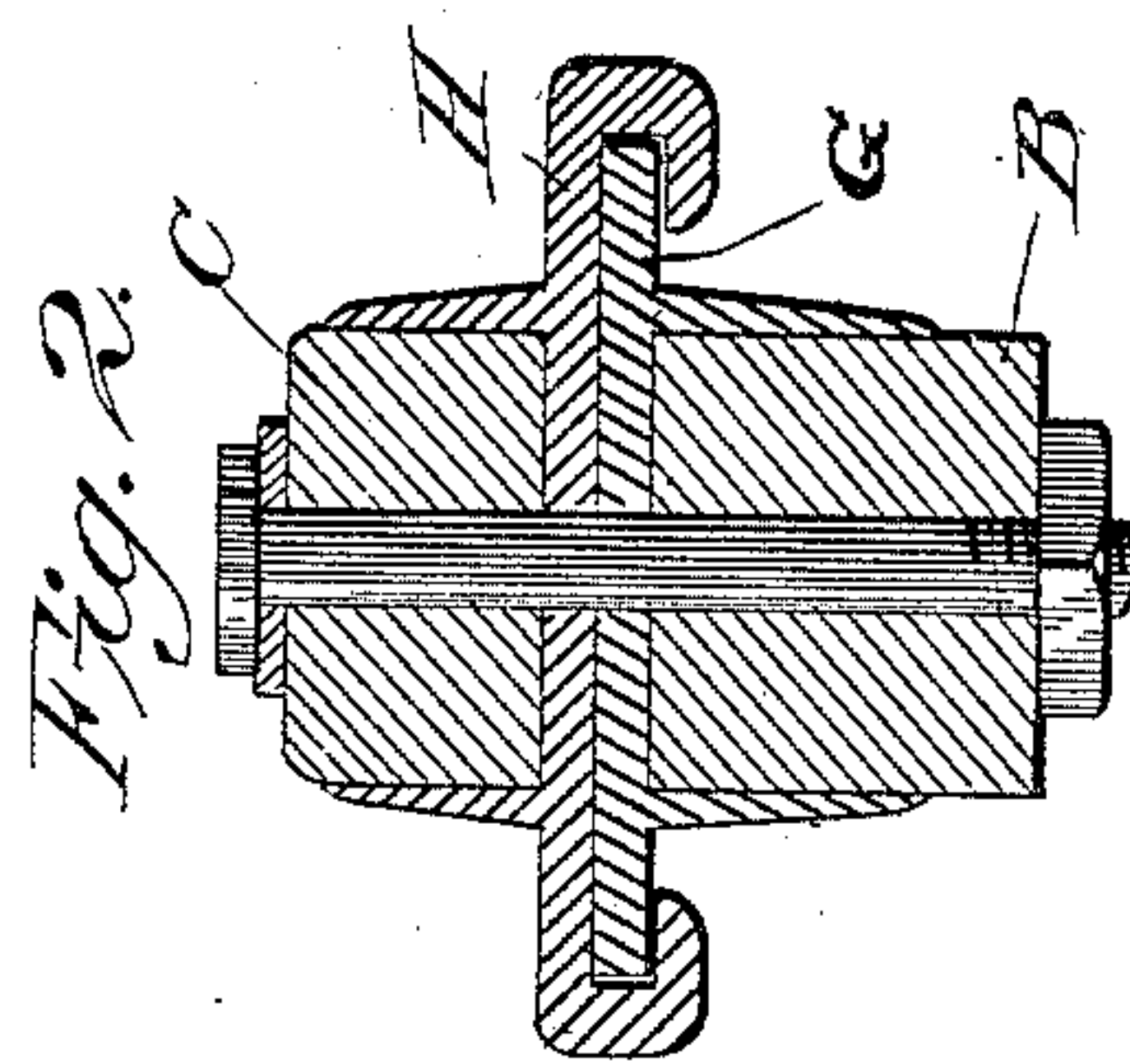
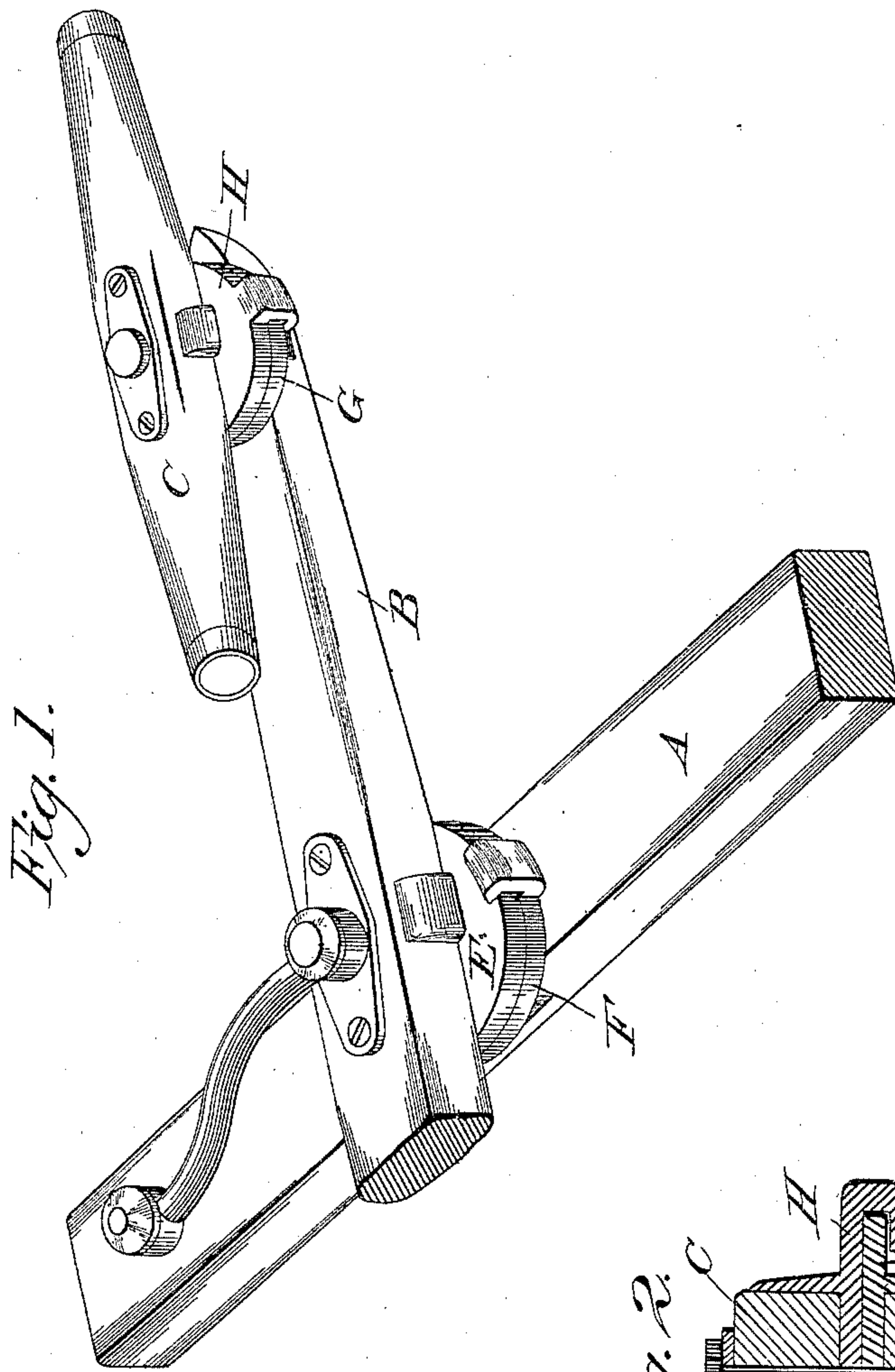


(No Model.)

J. R. MOORE.  
WHIFFLETREE PLATE.

No. 427,702.

Patented May 13, 1890.



Witnesses:  
Lem B Smith  
John P Goble

Inventor:  
John R. Moore

# UNITED STATES PATENT OFFICE.

JOHN R. MOORE, OF SCOTTVILLE, ILLINOIS.

## WHIFFLETREE-PLATE.

SPECIFICATION forming part of Letters Patent No. 427,702, dated May 13, 1890.

Application filed November 20, 1889. Serial No. 331,031. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. MOORE, a citizen of the United States, residing at Scottville, Illinois, have invented a new and useful Improvement in Whiffletree-Plates, of which the following is a specification.

My invention relates to an improvement in whiffletree-irons; and it consists in the construction and arrangement of parts hereinafter described and claimed.

The object of my invention is to provide a plate for whiffletrees which will permit only a pivotal movement of the same.

In the accompanying drawings, forming a part of this specification, wherein like letters of reference indicate corresponding parts in the several views, Figure 1 is a perspective view of a portion of a tongue and whiffletree, and Fig. 2 is a vertical section through the doubletree and its connections.

In the drawings, A represents a tongue, and B the singletree, which is secured by a bolt to the tongue. Between the tree B and the tongue are placed two circular plates E and F, the latter having curved clamps on its side opposite to each other, which extend up and are bent over the plate E. The under side of the plate E has downward projections which closely fit on the sides of the tongue. On the top plate E two projections are formed, which closely fit the tree B, and thus permit the independent movement of the plate, the bolt passing through these parts.

The construction of the plates for the singletree C is substantially the same as those heretofore described, with the exception that the plate H, being the upper one, has the clamps on its edges opposite each other and extending over the edges of the lower plate G, thus preventing the plates from becoming separated. On these plates H G are formed lugs, which embrace, respectively, the trees B and C.

By the above construction it will be seen that the trees are allowed a pivotal movement only and are securely held in place. By loosening the bolts the trees may be readily drawn out from between the lugs on the plates. The adjacent faces of the plates are flat to form a bearing-surface for the trees.

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

The whiffletree-iron herein described, consisting of a circular plate having angular locking-arms extending down from each side opposite each other, a circular plate between the arms, over which the ends of the arms are bent, and lugs on the outer faces of the respective plates between which the tree is secured, substantially as described.

JOHN R. MOORE.

In presence of—  
G. W. BROWN,  
J. F. ELLIS.