J. F. O'CONNOR.

YOKE.

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1,286,736.

Fig. 1

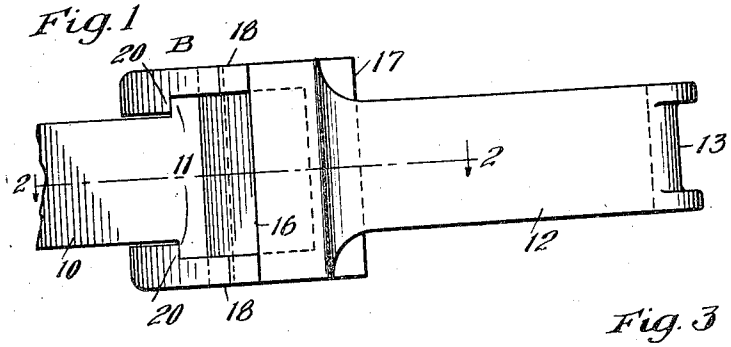


Fig. 2

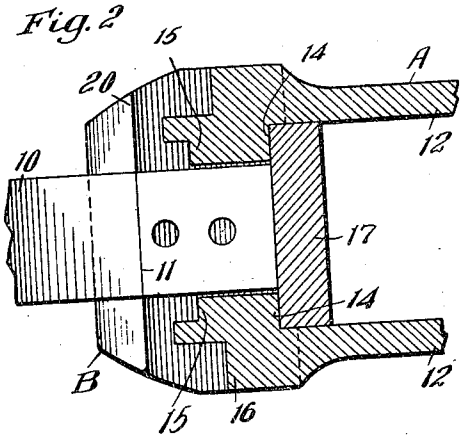


Fig. 3

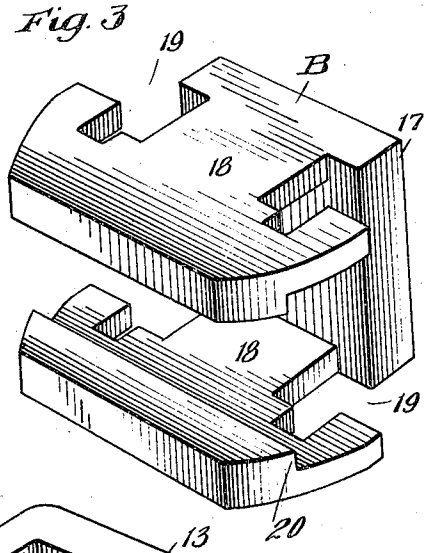
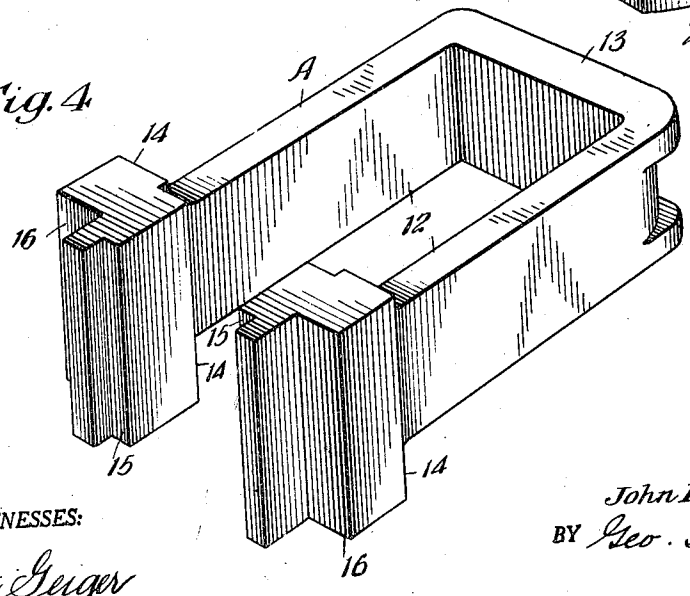


Fig. 4



WITNESSES:

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YOKE.

1,286,736. Specification of Letters Patent. Patented Dec. 3, 1918.

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To all whom it may concern:

Be it known that I, JOHN F. O'CONNOR, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Yokes, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in yokes.

The object of the invention is to provide a novel type of horizontal yoke which may be readily attached to and detached from a standard draw bar, whether the latter is provided with a coupler-key slot or not.

In the drawing forming a part of this specification, Figure 1 is a side elevation of a draw bar and yoke showing my improvement in connection therewith. Fig. 2 is a horizontal sectional view taken substantially on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the head employed with my improved yoke. And Fig. 4 is a perspective view of the yoke proper.

In said drawing, 10 denotes a standard draw bar, the butt of which is provided with the usual upper and lower shoulders 11—11. The improved yoke, considered as an entirety, consists of a yoke proper A and a connecting head B. The yoke proper, as shown, is of the horizontal type and has horizontal arms 12—12 connected by rear portion 13, and each of said arms 12 is provided at its forward end with an enlargement forming rear inner shoulder 14, front shoulder 15 and front side shoulder 16, all of said shoulders 14, 15 and 16 extending vertically, as clearly appears from Figs. 2 and 4. The head B, which is of U-shape, comprises a rear vertical wall or follower portion 17, upper and lower forwardly extended walls 18—18, each of said walls 18 being recessed in vertical alinement, as indicated at 19, to correspond to the shape and size of the enlargements at the forward ends of each of the arms of the yoke proper. In addition to the recesses above described which form vertical shoulders coöperating with the vertical shoulders of the yoke proper, each of the forwardly extended walls 18 is provided on its inner face with a transversely extending shoulder 20, the latter being so spaced and located as to coöperate with the shoulders 11—11 of the draw bar butt.

The draw bar and head B are assembled by relative transverse movement, that is, the draw bar butt can be slipped laterally or sidewise between the arms or the walls 18—18 of the head so that the shoulders 11 of the draw bar butt engage behind the shoulders 20—20 of the head. With this connection, it is apparent that the draw bar and head B will move in unison in both buff and draft. The yoke proper A is now assembled with the draw bar and head B by relative vertical movement between the head and yoke proper, that is, by lifting the yoke proper vertically so that the enlarged ends of the arms thereof will slide into the recesses 19—19 provided on the head, thus coöperatively engaging the vertical shoulders of the yoke proper and the head. When thus assembled, it is apparent that the yoke proper and head will also move in unison in both buff and draft.

From the preceding description, it will be seen that the parts may be readily assembled and disassembled and the draw bar and head B can be disconnected from the yoke proper by merely lowering the draw bar and head without disturbing the yoke proper, the latter being usually supported in guideways provided in the stop castings used with a gear employing a horizontal yoke. It will also be noted that the construction is such that the draw bar can be employed to actuate a horizontal yoke of the tandem type although the yoke shown in the drawing is of the single or twin-spring type. Furthermore, when the yoke proper and head B are assembled, it is apparent that the enlargements on the ends of the yoke proper arms effectively serve to retain the draw bar butt in central position with respect to the head B.

I claim:

1. As an article of manufacture, a yoke comprising, a yoke proper and a head detachably connected thereto, the yoke proper and head having coöperating vertically engaging shoulders so arranged that the head and yoke proper are assembled by relative vertical movement, the head being also provided with transversely extending shoulders adapted to coöperate with the usual shoul-

ders of a draw bar butt, the latter and the head being adapted to be assembled by relative transverse movement.

2. As an article of manufacture, a yoke comprising, a U-shaped head having the arms of the U extending horizontally one above the other when in operative position, and a U-shaped yoke proper having its arms extending parallel to each other in the same horizontal planes when in operative position, the free ends of said U-shaped yoke proper being shouldered for detachably engaging coöperating shoulders on said head, said head having integrally formed means thereon adapted for engagement with cooperating means on a draw bar for detachably connecting the head to a draw bar.

3. As an article of manufacture, a yoke for railway draft riggings, said yoke comprising a U-shaped yoke proper and a U-shaped head, said head and yoke proper having detachable shouldered engagement, said head having also transversely extending shoulders arranged to detachably engage the shoulders of a standard draw bar.

4. As an article of manufacture, a yoke for railway draft riggings, comprising, a horizontally disposed U-shaped yoke proper, each of the arms thereof being provided at its free end with vertically extending shoulders, and a head having vertically extending recesses forming shoulders within which the shouldered portions of the yoke proper arms are engaged, said head having also transversely extending shoulders adapted to coöperate with the usual shoulders of a standard draw bar butt.

5. In a device of the character described, the combination with a draw bar having a shouldered butt, of a head, said head having upper and lower forwardly extended arms each provided with a transverse shoulder on its inner face whereby the head is assembled with the draw bar butt by relative transverse movement, and a yoke proper, the latter having vertically extending shoulders provided at the forward ends of the arms thereof, the head having correspondingly shaped recesses whereby the yoke proper is assembled with the head by relative vertical movement, the forward ends of the yoke proper arms being adapted to retain the draw bar in central position with respect to the head after the parts are assembled.

In witness that I claim the foreging I have hereunto subscribed my name this 15th day of Feb. 1917.

JOHN F. O'CONNOR.