No. 850,859. PATENTED APR. 16, 1907.

J. VAN DYKE.

SEPARABLE JAW FOR BRAKE AND OTHER RODS.

APPLICATION FILED OCT. 25, 1906.

Fig. 1.

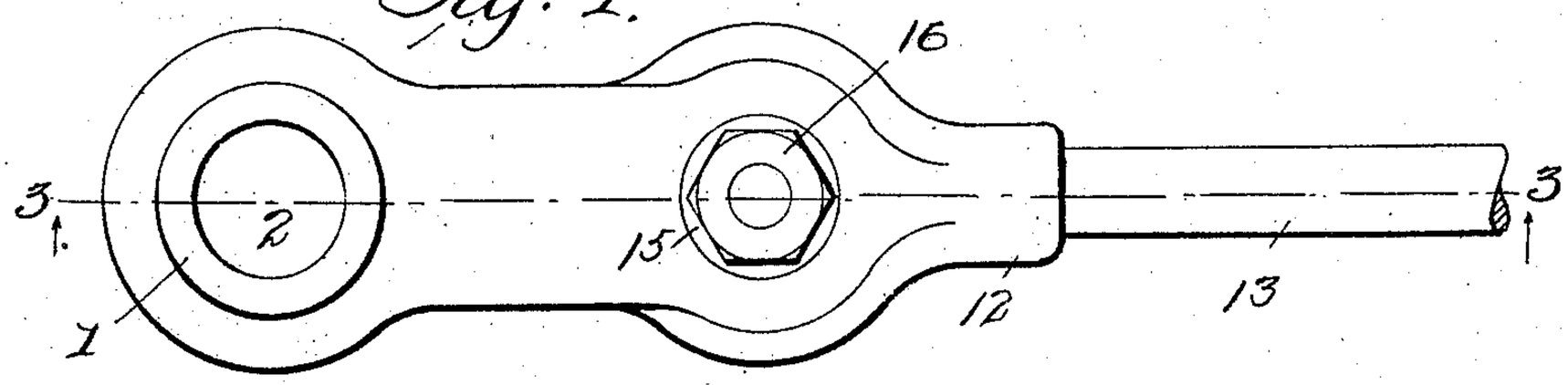


Fig. 2.

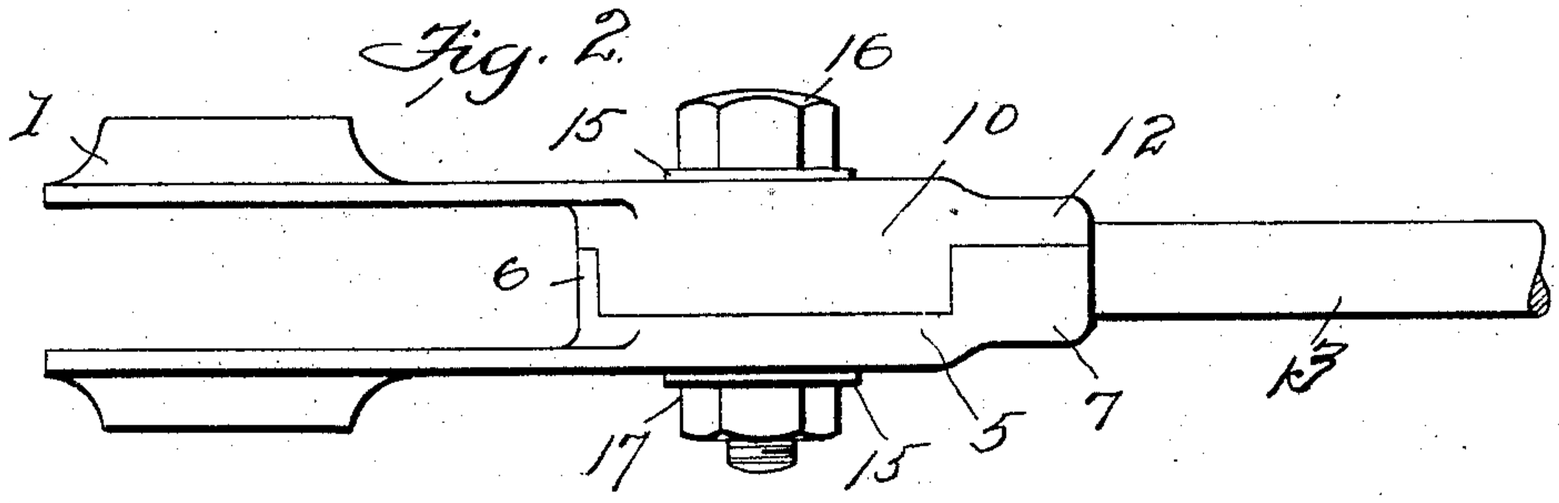


Fig. 3.

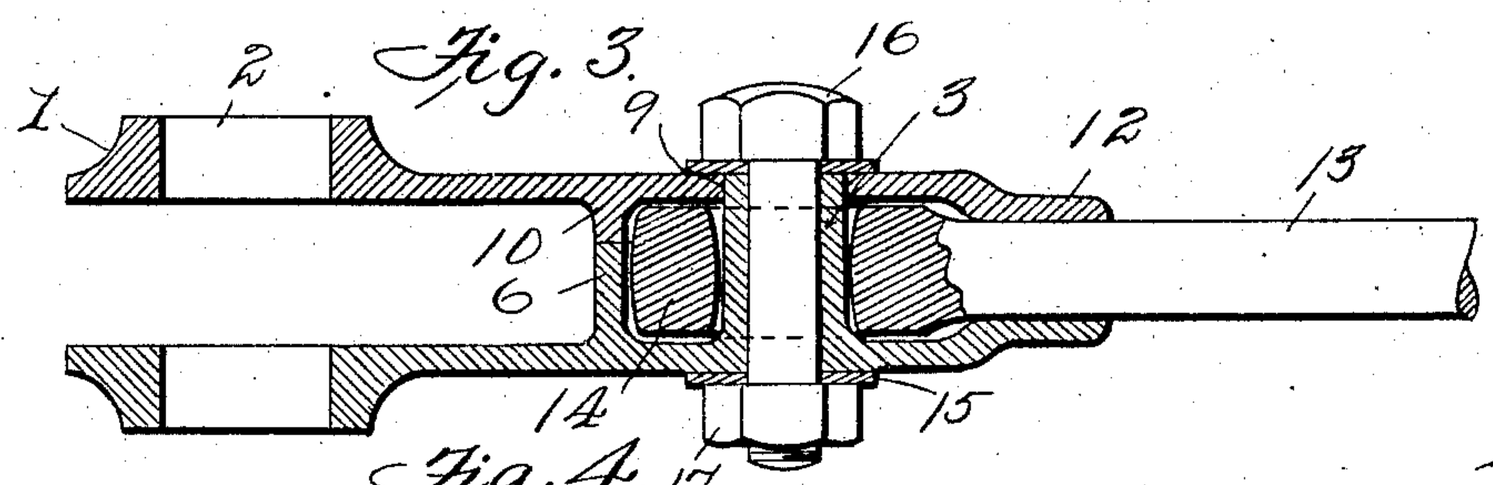


Fig. 4.

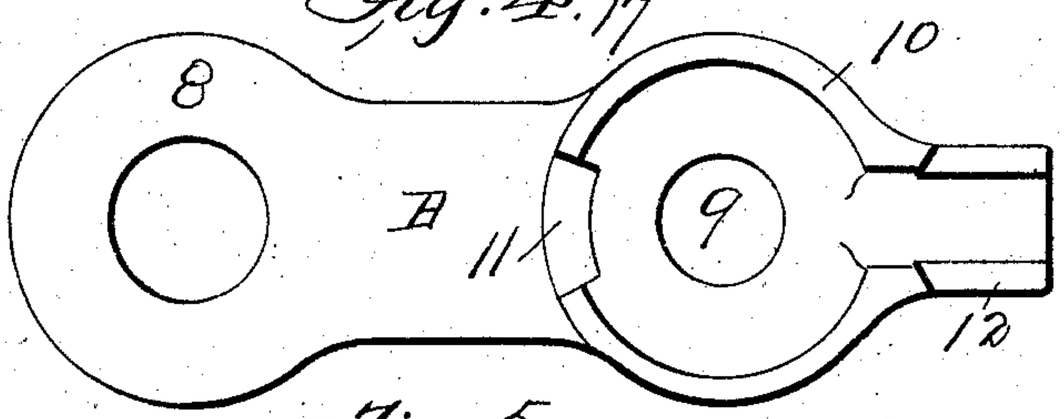
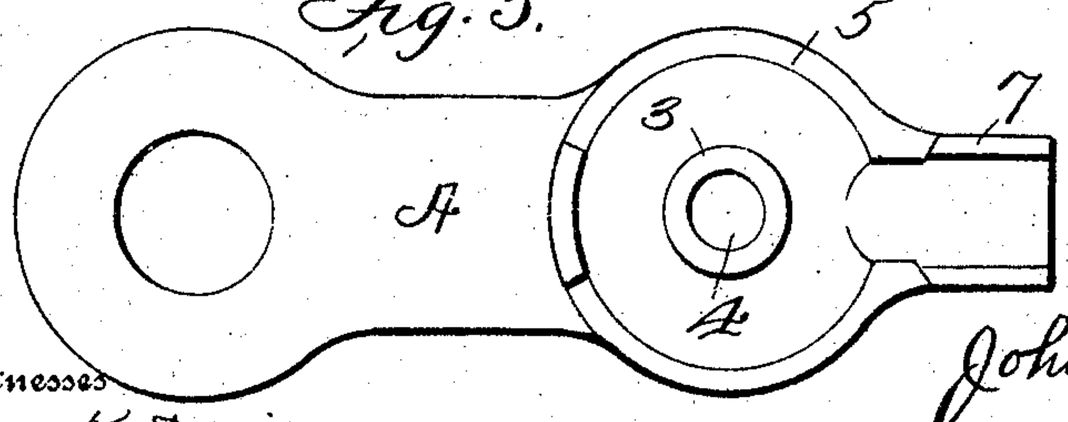


Fig. 5.



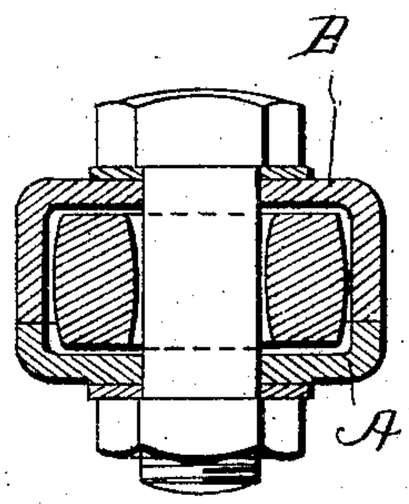


Fig. 6.

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UNITED STATES PATENT OFFICE.

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SEPARABLE JAW FOR BRAKE AND OTHER RODS.

No. 850,859. Specification of Letters Patent. Patented April 16, 1907.

Application filed October 25, 1906. Serial No. 340,501.

To all whom it may concern:

Be it known that I, JOHN VAN DYKE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Separable Jaws for Brake and other Rods, of which the following is a specification.

My invention relates to metallic jaws; and the object is the provision of an improved pair of separable jaws which will be adapted for being detachably secured to a rod having an eye at the end thereof or a similar formation, such as a brake or other rod.

The invention consists in certain novelties of construction, formation, and combinations of parts, as hereinafter set forth and claimed.

The accompanying drawings illustrate one complete example of the physical embodiment of the invention and one modification constructed according to the best modes I have so far devised for the practical application of the principle.

Figure 1 is a plan view of a pair of jaws detachably secured to a rod having an eye at the end. Fig. 2 is an edge view of the jaws shown by Fig. 1. Fig. 3 is a sectional view in elevation on line 3 3 of Fig. 1. Figs. 4 and 5 are inside plan views of the two jaws separated. Fig. 6 illustrates in section a slightly-modified form of construction.

Referring to the several figures, the letter A designates one of the jaws as a whole; 1, a circular boss at one end and upon the outer surface of the jaw; 2, a hole through the body of the metal and the boss, the said boss being for the purpose of increasing the area of the bearing-surface for a bolt passed through the hole and to strengthen the jaw; 3, a cylindrical boss at the opposite end of the jaw and projecting from the inner surface of the same at right angles; 4, a longitudinal hole through the said boss and jaw; 5, the curved edges of the body of the jaw exterior of the boss; 6, a projecting lug or segment, and 7 is a semicylindrical extension at the end of the jaw adapted to receive a rod.

The letter B designates the companion jaw as a whole; 8, the end of the jaw identical in construction with the end of the jaw previously described; 9, a hole at the opposite end which receives the end of the cylindrical boss 3 of the other jaw; 10, curved ribs upon opposite sides of the hole 9, which form a seat for the eye at the end of a rod; 11, a recess to receive the lug 6 of the jaw A, which fits the same, and 12 is an extension at the end of the jaw which matches the semicylindrical projection or extension 7 of jaw A and with it forms a cylindrical perforated bearing for a rod.

The numeral 13 designates a rod with an eye 14 at the end which is located within the seat formed by the curved ribs 10 and passed over the perforated cylindrical boss 3, as shown by Fig. 3 in section; 15, two washers; 16, a bolt passed through the boss 3, and 17 is a nut upon the end of the bolt.

It is obvious that the cylindrical boss 3 forms a relatively large bearing-surface for the eye of the rod, that the bolt 16 is not subject to any shearing strains, and that the rod and eye may readily be removed by withdrawing the bolt and separating the jaws.

In the modified form of construction shown by Fig. 6 the cylindrical boss 3 is omitted, and a bolt of relatively large diameter is passed through the jaws and eye of the rod.

From the foregoing description, taken in connection with the drawings, it is clear that I have produced a pair of separable jaws adapted to be detachably secured to a rod having an eye or hook at the end which are of very simple construction, which may easily be manufactured by the process of drop-forging or casting, which interlock and are of ample strength where they engage the eye, and which admit of the substitution of a jaw should one of them become broken or otherwise impaired.

Modifications of construction may, of course, be introduced without constituting substantial departures.

What I claim is—

1. The combination with a rod having an eye, of a pair of separable jaws; a bolt; and means for holding the bolt in position.

2. The combination with a rod having an eye, of a pair of interlocking separable jaws; a bolt; and a nut.

3. The combination with a rod having an eye, of a pair of separable jaws; a perforated boss which passes through the eye; and means for holding the jaws together.

4. A pair of separable metallic jaws, each provided at the ends with a hole, and having at one end when the same are united an

opening for the passage of a rod, a seat bounded by the curved ribs 10 and segment 6, and means for holding the parts together.

5. A pair of separable interlocking jaws, each provided at the ends with a hole, having at one end when the same are united an opening for a rod, a seat for an eye of the rod, and a perforated boss which passes through the eye of the rod when the latter is united with the jaws.

6. A pair of separable jaws having at one of their ends when united a recess or seat for the eye or bent end of a rod, and holes in line with the recess or seat for the reception of a bolt which is adapted to pass through the eye of the rod and the holes and unite the several parts.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN VAN DYKE.

Witnesses:
N. B. MAE HATTON,
M. A. GARRETT.