

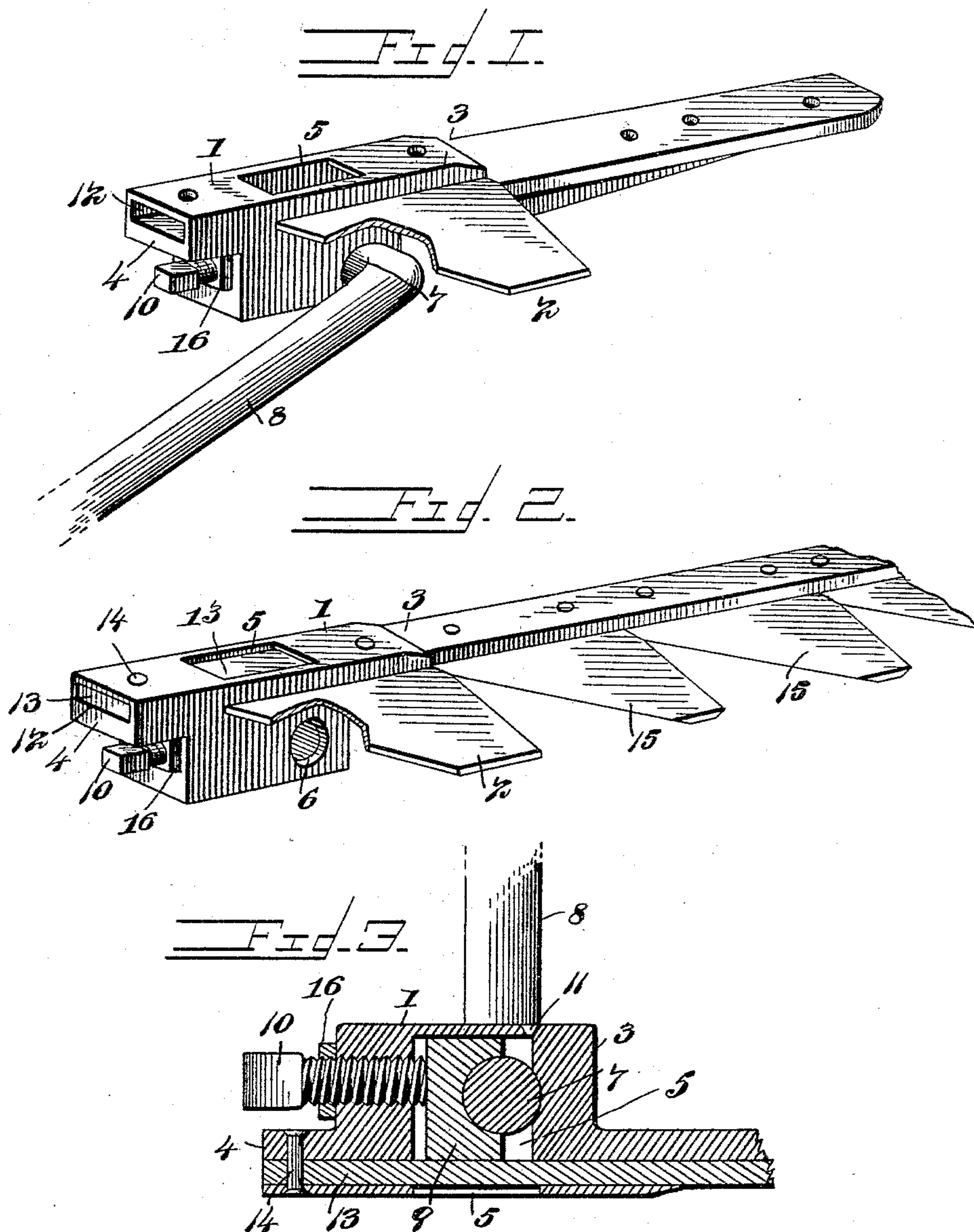
(No Model.)

J. S. ORD.

PITMAN CONNECTION FOR CUTTING MECHANISM OF MOWERS, &c.

No. 598,004.

Patented Jan. 25, 1898.



Inventor

John S. Ord

Witnesses

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By His Attorneys,

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UNITED STATES PATENT OFFICE.

JOHN STEPHEN ORD, OF APTOS, CALIFORNIA.

PITMAN CONNECTION FOR CUTTING MECHANISM OF MOWERS, &c.

SPECIFICATION forming part of Letters Patent No. 598,004, dated January 25, 1898.

Application filed April 7, 1897. Serial No. 631,160. (No model.)

To all whom it may concern:

Be it known that I, JOHN STEPHEN ORD, a citizen of the United States, residing at Aptos, in the county of Santa Cruz and State of California, have invented a new and useful Pitman Connection for the Cutting Mechanism of Mowers, &c., of which the following is a specification.

This invention relates to certain improvements in pitman connections for the cutting mechanism for reapers, mowers, &c., and has for its object to improve and simplify the means for taking up lost motion at the coupling of the pitman with the cutter-bar.

The invention consists in certain novel features of the construction, combination, and arrangement of the various parts of the improved mechanism, whereby certain important advantages are attained, and the device is made simpler, cheaper, and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

In order that my improvements may be the better understood, I have shown in the accompanying drawings one embodiment of the invention, in which drawings—

Figure 1 is a perspective view of the cutter-bar head detached and inverted, the guard-tooth carried by the head being broken away to better show the connection of the pitman therewith. Fig. 2 is a view similar to Fig. 1, but showing the end of the cutter-bar engaged with the head. Fig. 3 is a sectional view taken longitudinally through the head.

In the views, 1 indicates the head of the cutter-bar, which will be by preference formed of malleable iron, provided with a guard-tooth 2 and having a thickened portion 3, forming a heel or projection 4 on the upper face of the head. In the thickened portion or heel 4 of the head 1 is formed a rectangular chamber or recess 5, opening at the under side of the head, as clearly shown in Fig. 1, and in the opposite sides of the heel 4, which form the side walls of the chamber or recess 5, are formed circular openings 6 to receive the bent end 7 of the pitman 8, by means of which the cutter-bar is actuated.

The openings 6 in the heel 4 are formed adjacent to one end of the chamber or recess 5,

and in said chamber or recess is arranged a half-bearing 9, having a recess to receive one side of the end 7 of the pitman, the other side of which bears against the end wall of the recess or chamber 5.

To permit the half-bearing to be adjusted in the recess or chamber so as to take up wear caused by the operation of the pitman and cutting mechanism, I provide a set-screw 10, mounted in the end of the heel 4 and arranged to bear against the half-bearing 9 in such a way as to enable the same to be moved into close engagement with the end 7 of the pitman when the screw is turned. A lock-nut 16 is provided to hold screw 10 against movement. An oil-duct is also provided leading from the chamber or recess 5 through the wall of the heel 4 to the top surface thereof, as shown at 11 in Fig. 3. In this way the bearing of the pitman can be conveniently lubricated.

In the under portion of the head 1 of the cutter-bar is formed a passage or opening 12, extending longitudinally through the thickened portion of the head, and said passage 12 extends at right angles to and intersects the chamber or passage 5 of the heel. This chamber is adapted to receive the end of the cutter-bar 13, as shown in Figs. 2 and 3, when the head 1 is to be secured thereto, and, as shown in said figures, the assembling of these parts will serve to close the recess or chamber 5, in which the half-bearing 9 is arranged, so as to hold the same securely in place, as will be readily understood.

As shown in the drawings, the cutter-bar 13 and its head 1 are held together by rivets 14, the cutters 15 being held between the two parts and to the cutter-bar 13 in the same manner, but it will be obvious that any form of connection to hold these parts together may be employed.

From the above description it will be seen that the construction of the coupling in accordance with my invention possesses numerous advantages, since the construction is not merely simple and cheap, but is, moreover, light and durable and permits the bearing of the pitman to be conveniently adjusted to take up lost motion and prevent the pounding caused by looseness at this point, which often results in breaking down the cutting

mechanism. It will also be obvious that the invention is susceptible of some modification without material departure from its principles and spirit, and for this reason I do not wish to be understood as limiting myself to the precise form and arrangement of the parts herein set forth.

Having thus described the invention, what is claimed as new is—

10 1. In a pitman connection for a mower cutting mechanism, a head provided with a vertical chamber which opens through the lower side thereof, and having in one of its side walls a transverse journal-opening, in combination
15 with a half-bearing in said chamber and adapted for removal and insertion through the open bottom of the chamber, a pitman having an end portion extending through the opening in the side wall of the chamber and
20 held between the half-bearing and the adjacent end wall of the chamber, means for moving said half-bearing to take up wear between the same and the end portion of the pitman, and a cutter-bar united laterally to
25 the bottom of the head to close the open bottom of the chamber to hold the half-bearing therein, substantially as set forth.

30 2. In a pitman connection for a cutting mechanism, the combination of a cutter-bar head provided with a chamber, and having an opening in its wall, a half-bearing in said chamber, a pitman, the end portion of which extends through an opening in the side wall

of the chamber, and engages the half-bearing, means to move the half-bearing to take up wear between the same and the end of the pitman, and a cutter-bar connected to the cutter-bar head and arranged to close the open side of the chamber in the head to hold the half-bearing in place, substantially as described.

3. In a pitman connection for a cutting mechanism, the combination of a cutter-bar head provided with a chamber having an opening in its wall, a half-bearing in the chamber, a pitman having its end portion extended through an opening in the side wall of the chamber into engagement with the half-bearing, means to adjust the half-bearing to take up wear between itself and the end of the pitman, said cutter-bar head being also provided with a passage intersecting the said chamber near the open side thereof, and a cutter-bar connected to the head, said cutter-bar being passed through said passage and serving to close the open side of the chamber to hold the half-bearing in place therein, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN STEPHEN ORD.

Witnesses:

GEO. M. ORD,
W. E. RICE.