

C. C. BRADLEY.
HARVESTER.

No. 177,680.

Patented May 23, 1876.

FIG. 1.

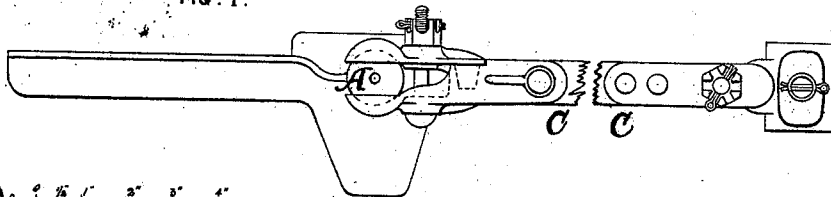


FIG. 2.

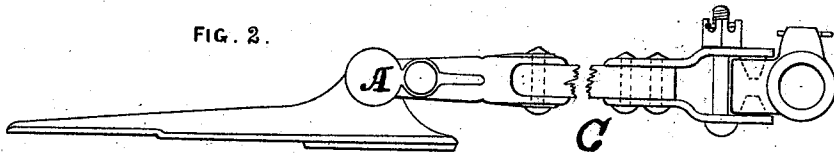
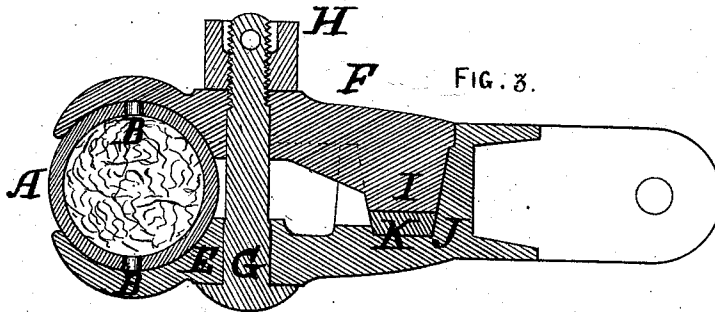


FIG. 3.



Scale.

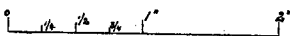
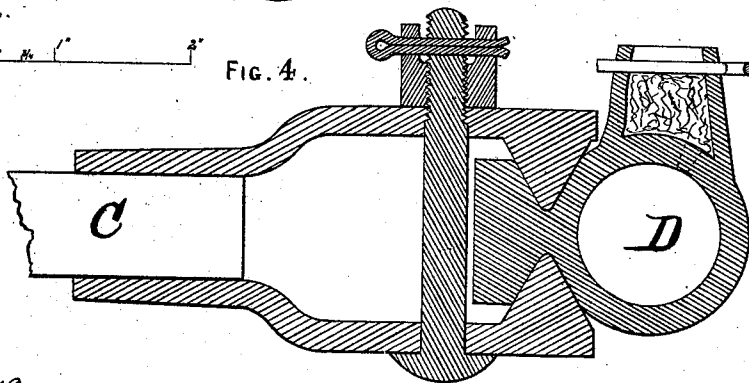


FIG. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHRISTOPHER C. BRADLEY, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **177,680**, dated May 23, 1876; application filed March 18, 1876.

To all whom it may concern:

Be it known that I, CHRISTOPHER C. BRADLEY, of Syracuse, New York, have invented a new and useful Improvement in Harvesters, of which the following is a specification:

My invention relates to the pitmen of mowing and reaping machines; and consists of the adjustable, elastic, self-oiling, ball-and-socket connection between the pitman and the cutter-bar hereinafter described.

Similar letters of reference indicate corresponding parts in all the drawing, of which—

Figure 1 is a top view, and Fig. 2 a side elevation, of my improved device; Fig. 3, a horizontal section of my improved ball-and-socket connection, and Fig. 4 a vertical section of a suitable pivoted journal-box for the driving-crank.

In the drawing, A represents a hollow spherical cutter-bar head, filled in completely with fibrous or other absorbent material, to retain lubricating matter. It is perforated laterally with two holes, B B, through which the lubricant escapes to oil the clasps, and has an opening on its upper surface, through which it is supplied. C is the pitman-bar, connected to the driving-crank by any suitable pivoted journal-box, such as that shown and lettered D. E and F are two socket-clasps, grasping the cutter-bar head upon both sides, E attached rigidly to the opposite extremity of the pitman-bar from that connected with the crank, and F removably secured by means of a bolt and

lock-nut, G and H, passing through and connecting both clasps, and held in position by a conical stud, I, taking into a correspondingly-shaped recess, J, formed in the clasp E. K is a piece of rubber or other elastic material, placed in the recess J for the stud to press upon, whereby a certain elasticity of compression is imparted to the socket-clasps.

The joint is entirely self-oiling, can be readily adjusted in tension, while all slack can be easily taken up; is simple, elastic in its action, will not become loose or irregular, and secures, in connection with the pivoted journal-box, a perfectly-free action to the pitman.

The clasps and head may be made of any desired anti-friction metal.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a harvester, a hollow spherical cutter-bar head, to contain lubricating material, substantially as described.

2. In a harvester-pitman, the combination of a detached socket-clasp, F, a fixed socket-clasp, E, a bolt and lock nut, G, and an elastic cushion, K, the whole forming an elastic socket-joint, as shown and described, and for the purpose specified.

CHRISTOPHER C. BRADLEY.

Witnesses:

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