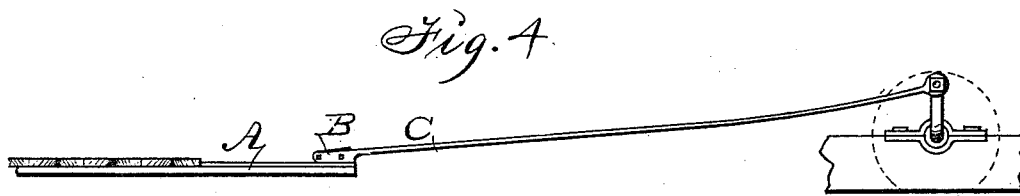
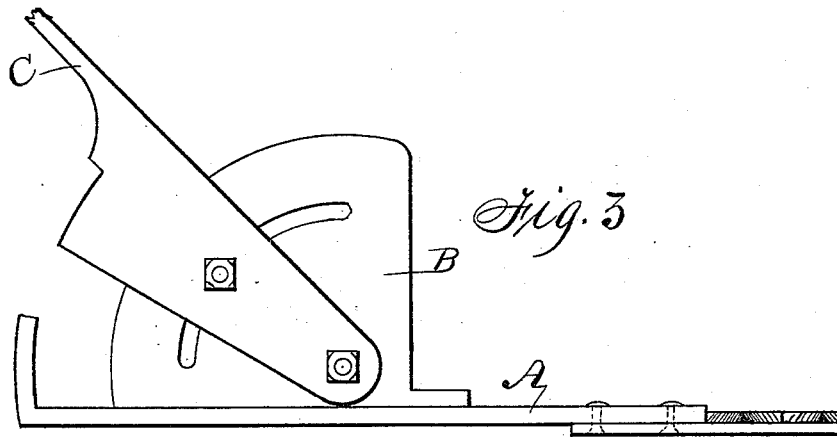
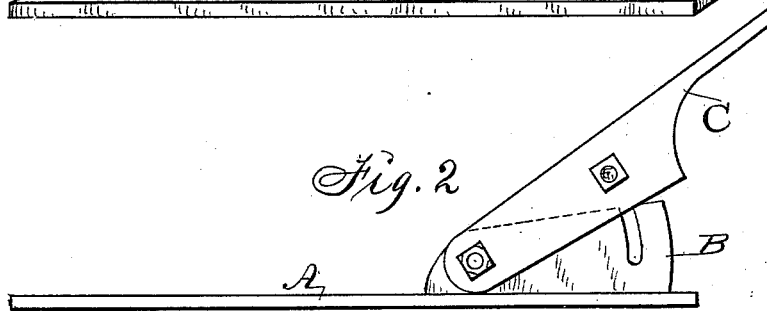
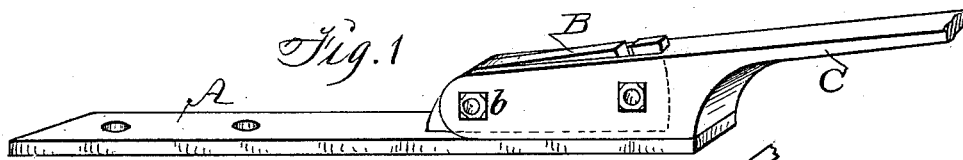


(No Model.)

C. C. SHULTS.
PITMAN COUPLING.

No. 420,112.

Patented Jan. 28, 1890.



Witnesses,
M. P. Smith, }
R. H. Owing, }

Inventor:
Chauncey C. Shults,
By Thomas G. Arnig, atty.

UNITED STATES PATENT OFFICE.

CHANCY C. SHULTS, OF WINTERSET, IOWA.

PITMAN-COUPLING.

SPECIFICATION forming part of Letters Patent No. 420,112, dated January 28, 1890.

Application filed October 29, 1889. Serial No. 328,606. (No model.)

To all whom it may concern:

Be it known that I, CHANCY C. SHULTS, a citizen of the United States of America, and a resident of Winterset, in the county of Madison and State of Iowa, have invented a Pitman-Coupling for Mowers and Reapers, of which the following is a specification.

My object is to provide a flexible connection between a pitman and a cutter-bar that will allow the bar to be self-adjusting relative to the inclination of the surface of the ground, and will also prevent any lateral flexion and the rattling incident to loose joints.

My invention consists in the construction and combination of a metal strap and hinge-section adapted to be fixed to a cutter-bar, and a pitman having a bifurcated end adapted to be connected with a hinge-section to produce a complete joint, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the hinge-section, and Fig. 2 a perspective view showing the end of a pitman combined therewith. Fig. 3 is a side view showing a modified form of hinge-section and the end of a pitman combined therewith. Fig. 4 is a side view of the coupling combined with a cutter-bar and a complete spring-pitman and pitman-driver, as required for practical use.

A is a flat metal strap, perforated and adapted to be rigidly fixed to a cutter-bar by means of rivets or screws.

B is an integral flat-sided vertical extension, that rises from the end and center of the top surface of the strap A. It has a perforation to admit the passage of a pivotal bolt *b*, and a curved slot *b'* in concentric position therewith, adapted to admit a bolt *b''* to traverse the slot. In Fig. 2 one end of the slot is open and in Fig. 3 both ends are closed.

C is a pitman, preferably made of spring-steel. Its rear end is enlarged and bifurcated, and adapted in shape to be hinged to the vertical projection B of the strap A by means of the bolt *b*, that is passed through coinciding perforations in the parallel ends of the pitman and through the perforations in the part B in such a manner that when the angle of the cutter-bar is changed relative to the pitman the bolt *b''* will traverse the slot *b'*, as required, to allow flexion vertically, while at the same time it will aid in preventing any longitudinal play between the cutter-bar and pitman.

I claim as my invention—

1. A coupling for a cutter-bar and a pitman, composed of a flat-bottomed metal strap having a flat-sided vertical projection at one end rising from the center of its top surface, a perforation and also a concentric curved slot in said projection, and a pitman having a bifurcated end and perforations in its parallel overlapping parts that coincide with the perforation and slot in the vertical projection on the metal strap and hinge-section, and bolts extended through said coinciding perforations and slot, substantially as shown and described.

2. The metal strap and hinge-section having a vertical projection B and a perforation and curved slot in said projection, a pitman having a bifurcated end, and perforations therein coinciding with the said perforation and slot, combined with a cutter-bar and a pitman-driver, substantially as shown and described, for the purposes stated.

CHANCY C. SHULTS.

Witnesses:

J. L. BAKER,
J. F. JOHNSTON.