A. P. Green,
Elastic Coupling.

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PATENTED
JAN 14 1868

Fig. 1.

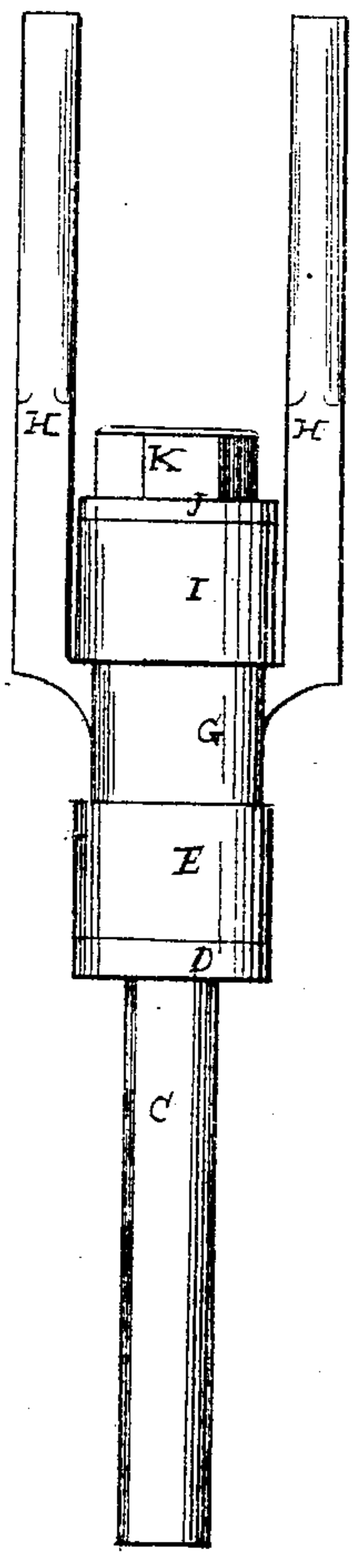


Fig. 2.

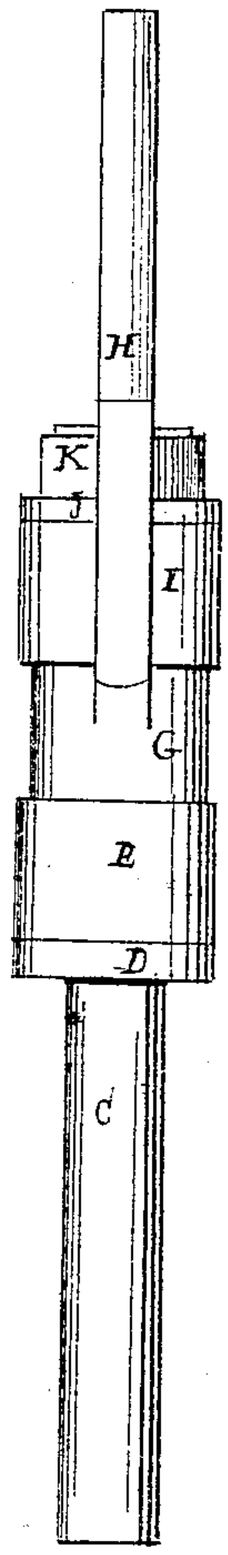
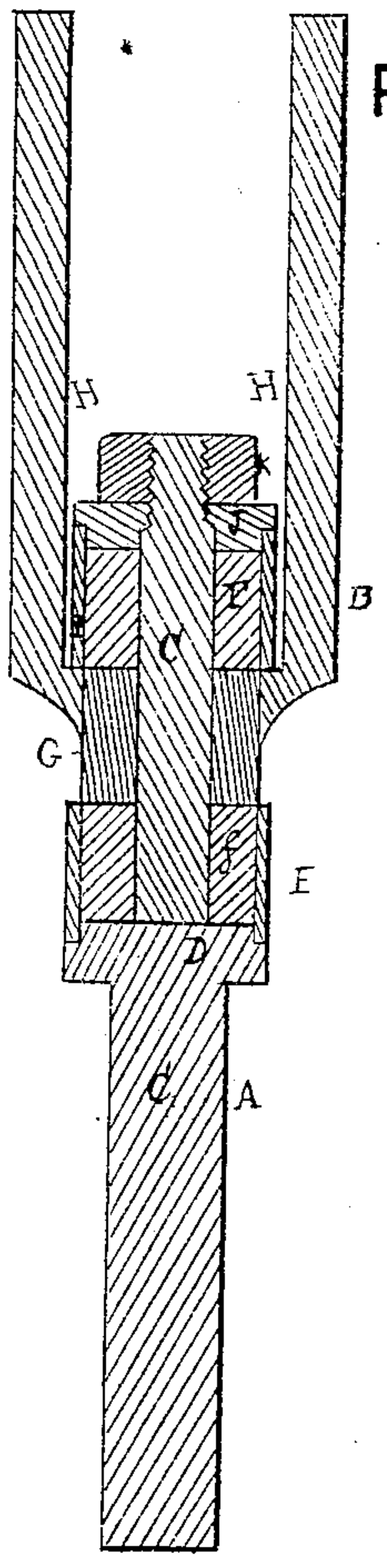


Fig. 3.



Inventor
A. P. Green

Witnesses
J. H. Burridge
J. Holmes

United States Patent Office.

A. P. GREEN, OF STEUBEN, OHIO.

Letters Patent No. 73,320, *dated January* 14, 1868.

IMPROVEMENT IN ELASTIC COUPLING FOR SEEDING-MACHINES, &c.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. P. GREEN, of Steuben, in the county of Huron, and State of Ohio, have invented certain new and useful Improvements in Elastic Couplings for Grain-Seeding Machines, &c.; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figures 1 and 2 are side views of the coupling.

Figure 3 is a vertical transverse section.

Like letters refer to like parts.

This coupling is constructed in two sections, A B, fig. 3. Section A consists of a shank, C, to which is fixed a collar, D. To this collar is fitted a wide ring, E, which encloses an elastic ball or filling, F, and which, as will be observed, surrounds the upper section of the shank C. Section B of the coupling consists of a thimble or sleeve, G, through which passes the upper end of the shank. This thimble is provided with a pair of arms, H, and is made to fit the inside of the ring E, and thus rests upon the rubber ball or other elastic filling F, as seen in the transverse section, fig. 3. On the upper end of the thimble, and between the arms H referred to, is placed a ring, I, corresponding in size and character to the ring E. This ring is also filled with a rubber ball, or other elastic material. J is a shouldered washer, the said shoulder being made to fit the inside of the ring, so as to rest upon the filling or ball F′. The relative position of the two sections, rings, and elastic filling is shown in fig. 3, in which it will be seen that the whole are secured together by a nut, K, fitted to the upper end of the shank, and screwed down upon the washer, as shown in the illustrations.

It is a well-known fact to those using machinery, that in all movements of a reciprocating character, as that of a pitman attached to an ordinary crank, there is a tendency to jar, or shake and move. Especially is this the case where the movement is irregular or interrupted, as is that of the ordinary mowing-machine, and for which it is especially intended, and is applied by cutting out a section of the pitman equal in length to that of the coupling, and then welding the same in, the ends of the arms being first brought together for that purpose, thus forming a part of the pitman or connecting-rod.

The coupling as represented in the drawing is designed especially for a mowing-machine pitman. The lower end of the coupling is to be welded to the pitman, and the boxes of the crank placed between the arms H, and secured therein by screw-nuts, or otherwise.

It will be obvious that a slight modification of the coupling will render it applicable to all purposes of an analogous nature.

By the use of this coupling, the shock or concussion consequent on the play of the pitman is received on the elastic packings enclosed within the rings, thereby relieving the strain and jar from the extreme connections, and thus saves the boxes and wrists from the jarring and sudden straining to which they are ordinarily subjected, and thereby prevents them from becoming loose, or being broken.

What I claim as my improvement, and desire to secure by Letters Patent, is—

1. The shank C, provided with shouldered collars D, in combination with the ring E, elastic filling or ball F, in the manner and for the purpose set forth.

2. The thimble or sleeve G, arms H, in combination with the ring I, washer J, and elastic filling F′, in the manner and for the purpose substantially as set forth.

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Witnesses:

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