J. F. Seiberling.

Harvester Dropper.

No. 52327 Patented Jan. 30, 1866.

Fig. 1.

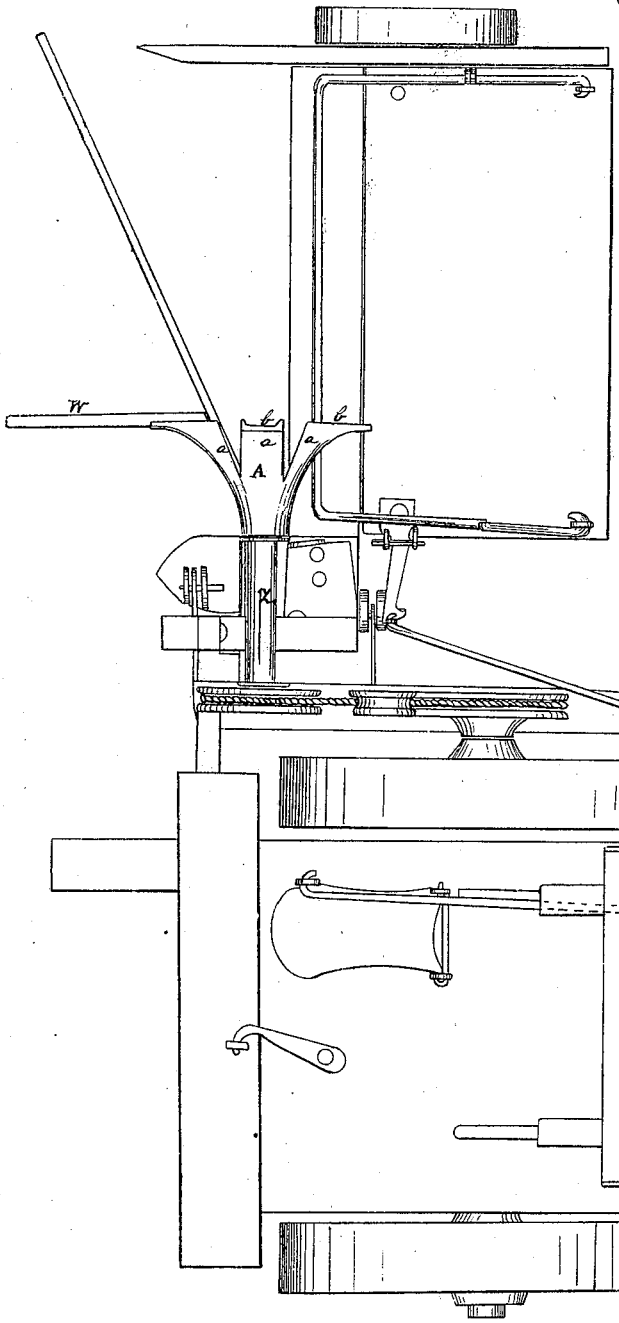


Fig. 2.

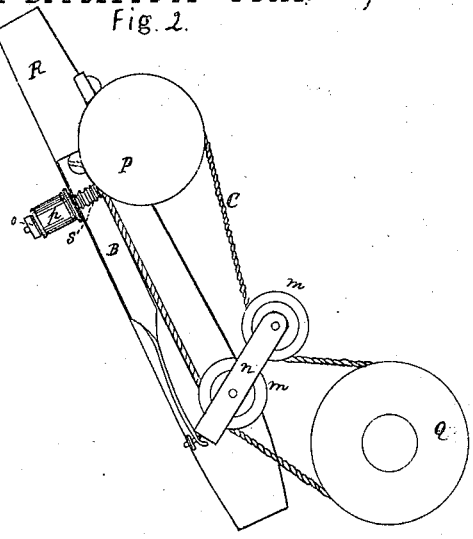
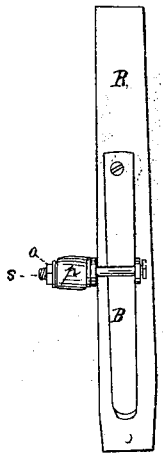


Fig. 3.



Witnesses

E. Breed

A. Bourne

Inventor

John F. Seiberling

by Daniel Breed Atty.

UNITED STATES PATENT OFFICE.

JOHN F. SEIBERLING, OF DOYLESTOWN, OHIO.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **52,327**, dated January 30, 1866.

To all whom it may concern:

Be it known that I, JOHN F. SEIBERLING, of Doylestown, in the county of Wayne and State of Ohio, have invented a new and useful Improvement in Harvesters; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in an improved arrangement of the radial sockets of the reel-hub and in a spring-tension for the tightening-pulley of the reel chain or band.

In the accompanying drawings, Figure 1 represents a harvester with my improvements attached. Fig. 2 is a detached view, showing the arrangement of the tightening-pulley of the reel-chain with my improvements. Fig. 3 is a separate view of the reel-post with my stiff pivoted pendant and the adjusting-bolt with rubber spring.

My improved reel-hub is represented at A, Fig. 1, of the accompanying drawings. This hub is cast with a main socket to receive the shaft Z in the usual manner. The set of oblique sockets radiate from the end of the hub, as seen at *a*, Fig. 1, in order to receive the oblique radial arms T, only one of which is shown in place in the drawings. From the outer end of these oblique sockets another set of radial sockets project, (seen at *b*, Fig. 1,) in order to receive and hold the set of short radial arms W, Fig. 1.

The principal advantages of this new arrangement of the sockets of the reel-hub are as follows:

First, both sets of sockets being at one end of the hub and one set projected from the outer extremities of the other, the hub as a whole is of simple form and easily cast or molded like a hub with but a single set of sockets. This hub may be molded with a two-part flask, while other similar hubs require a three-part flask, which is more complicated and expensive both in construction and in molding.

Second, the outer sockets, *b*, form a good bearing for fastening the hub directly upon the face-plate of the lathe for boring the hole for the shaft Z or turning and finishing the hub. Other similar hubs not having the straight sockets at the extremity of the hub or oblique sockets require an additional face-plate put upon the lathe in order to hold such hubs, thus making them more expensive in the manufacture.

Third, the sockets in my hub do not interfere with bolting on the radial arms as they would if one set of sockets were at the end and the other at the middle or the other end of the hub.

My improved hub requires but a small amount of metal, and has no disadvantages consequent upon the new arrangement of the sockets. Therefore it is a substantial improvement in reel-hubs, it being both cheaper in the manufacture and better in use.

The main object of my improvement in the reel-pulley is to give a spring bearing or tension to the pulley employed in tightening the reel chain or band.

Upon the reel-post R, Fig. 2, is carried the reel-pulley P in the usual manner, and the driving-pulley Q is carried upon the main axle, the pulley being shown detached from the axle in Fig. 2 and in place in Fig. 1.

For the purpose of tightening the reel chain or band C, I employ a double pulley, *m m*, Fig. 2, connected by a staple, *n*. This staple is attached to the lower end of the pendant B, Figs. 2 and 3, which is pivoted at its upper end, and capable of being swung to the left, so as to increase the tension of the tightening-pulleys *m m*.

An adjusting-bolt, S, passes through two ears, one upon the pendant B and the other fixed to the reel-post R, and is provided with a rubber spring, *p*, with a washer at each end, and also with a nut, *o*, to hold the spring and washers in place. By this arrangement the pendant B may be swung more or less to the left and the tension of the tightening-pulleys and of the band regulated at pleasure by turning the nut *o*. Thus the stiff pendant B, Fig. 3, in connection with the rubber spring *p*, produces a spring-tension upon the band.

In Fig. 2 the bolt S has a hook at one end, which seizes hold of the plate-pendant B, and thus serves the purpose of the ear upon the plate in Fig. 3. It will also be observed that the pendant B in Fig. 2 has a twist near the middle in order to give this pendant a double

spring-action when made of steel; but I do not claim this twist or the spring-action of the plate itself. I prefer the use of the rubber spring upon the bolt, or of a coiled spring in its place, and confine my improvement in the pulley tension to such spring upon the bolt.

I am aware that reel-hubs have been cast with two sets of sockets and radial arms. Therefore I confine my claims to the above-described new arrangement of the two sets of sockets.

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

1. A reel-hub in which the sockets for the short arms project from or near the extreme outer ends of the sockets for the long or radial arms, substantially in the manner and for the purposes described.

2. The adjusting-bolt S, in combination with the rubber spring or its equivalent and the stiff pendant B, for supporting the pulley and giving tension to the band or chain, substantially in the manner described.

JOHN F. SEIBERLING.

Witnesses:
S. H. MILLER,
L. HUFFMAN.