

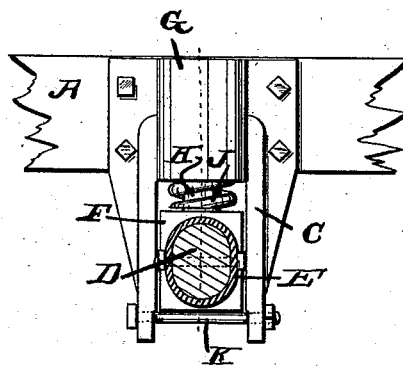
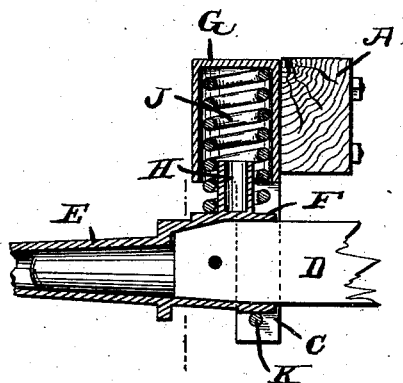
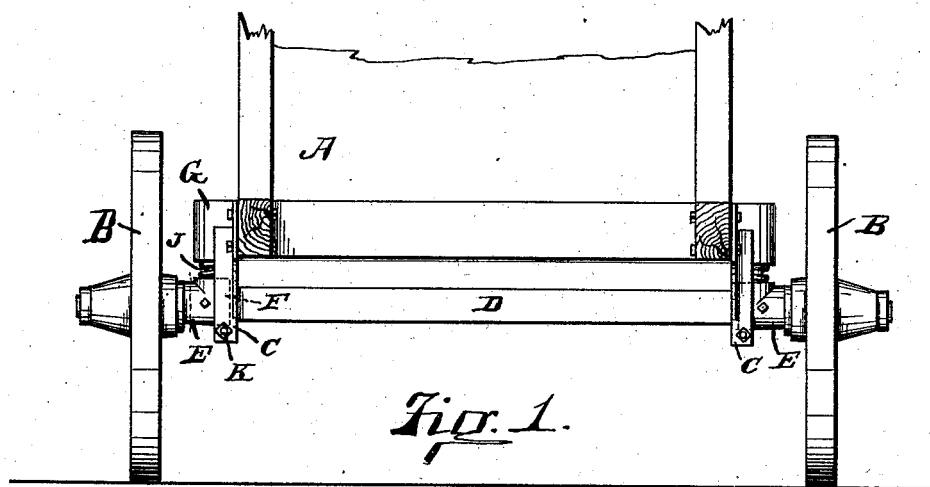
(No Model.)

F. W. ROBINSON.

AXLE FOR THRASHING MACHINES.

No. 382,009.

Patented May 1, 1888.



Francis W. Robinson.

Inventor.

Witnesses:  
Carl Spengel  
W. T. Edwards.

by James W. See.

Attorney.

# UNITED STATES PATENT OFFICE.

FRANCIS W. ROBINSON, OF RICHMOND, INDIANA.

## AXLE FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 382,009, dated May 1, 1888.

Application filed February 20, 1888. Serial No. 264,616. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS W. ROBINSON, of Richmond, Wayne county, Indiana, have invented certain new and useful Improvements in Thrasher-Axles, of which the following is a specification.

This invention relates to the axles and axle-mountings to the rear end of thrashing-machines, and will be readily understood from the following description, taken in connection with the accompanying drawings, in which—

Figure 1 is a rear elevation of a thrashing-machine provided with my improvements; Fig. 2, a rear elevation, near one end of the axle, with the skein-mounting appearing in vertical section; and Fig. 3, a side elevation of the mounting, the skein and axle appearing in vertical section.

In the drawings, A indicates the usual frame of a thrashing-machine; B, the rear wheels thereof; C, a pair of skein-jaws secured to the thrasher-framing and projecting downwardly therefrom, there being a pair of these jaws upon each side of the thrasher, one at each of the hind wheels; D, a wooden axle extending across under the thrasher and free of contact therewith, and outwardly through and beyond the skein-jaws; E, skeins secured upon the ends of the axle and fitting the wheels and forming the journals therefor; F, the inner ends of these skeins, the same being disposed within the jaws C, and formed, preferably, with rectangular enlargements engaging the vertical walls of the jaws and fitting the same freely, so as to permit vertical play of the skeins with the jaws; G, a downwardly-open spring-cup formed upon each jaw casting over the portion F of the skein; H, an upwardly-projecting boss formed upon the skein concentric with the spring-cup and projecting thereinto; J, a coil-spring disposed in each spring-cup and abutting against the ceiling thereof, and having its lower end engaging the top of the inner portions of the skein and encircling its boss;

and K, a bolt extending across each pair of jaws below the skein.

The skeins are firmly secured to the wooden axle, the springs are set upon the bosses, the axle is inserted upwardly in the jaws, the spring entering the spring-cups, the axle is forced upward a proper distance, and the bolts K are inserted in place in the jaws. The bolts prevent the downward displacement of the axle or the springs from the bosses and the rotation of the skeins in the jaws, and the rectangular enlargements F, if employed, furnish more extended wearing-surface where the vertical rubbing takes place during the movements of the skeins in the jaws.

I claim as my invention—

1. The combination, substantially as set forth, of a thrasher frame, an axle disposed across thereunder, skeins secured to the end thereof and provided at their inner ends with upwardly-projecting bosses, jaws secured to the thrasher-framing and engaging the inner ends of the skeins, downwardly-open spring-cups secured to the thrasher-frame over said bosses, and springs disposed within said cups and engaging said skein-bosses.

2. The combination, substantially as set forth, of a thrasher-frame, a pair of jaws secured to each side thereof and projecting downwardly, downwardly-open spring-cups at each of said pairs of jaws, springs disposed within such spring-cups, a wooden axle extending across under the thrasher-frame between and through said jaws, skeins secured to said axle and provided with rectangular enlargements at their inner ends engaging within the jaws, and bosses projecting upwardly from the inner end of each of said skeins into engagement with said springs.

FRANCIS W. ROBINSON.

Witnesses:

J. W. SEE,

W. A. SEWARD.