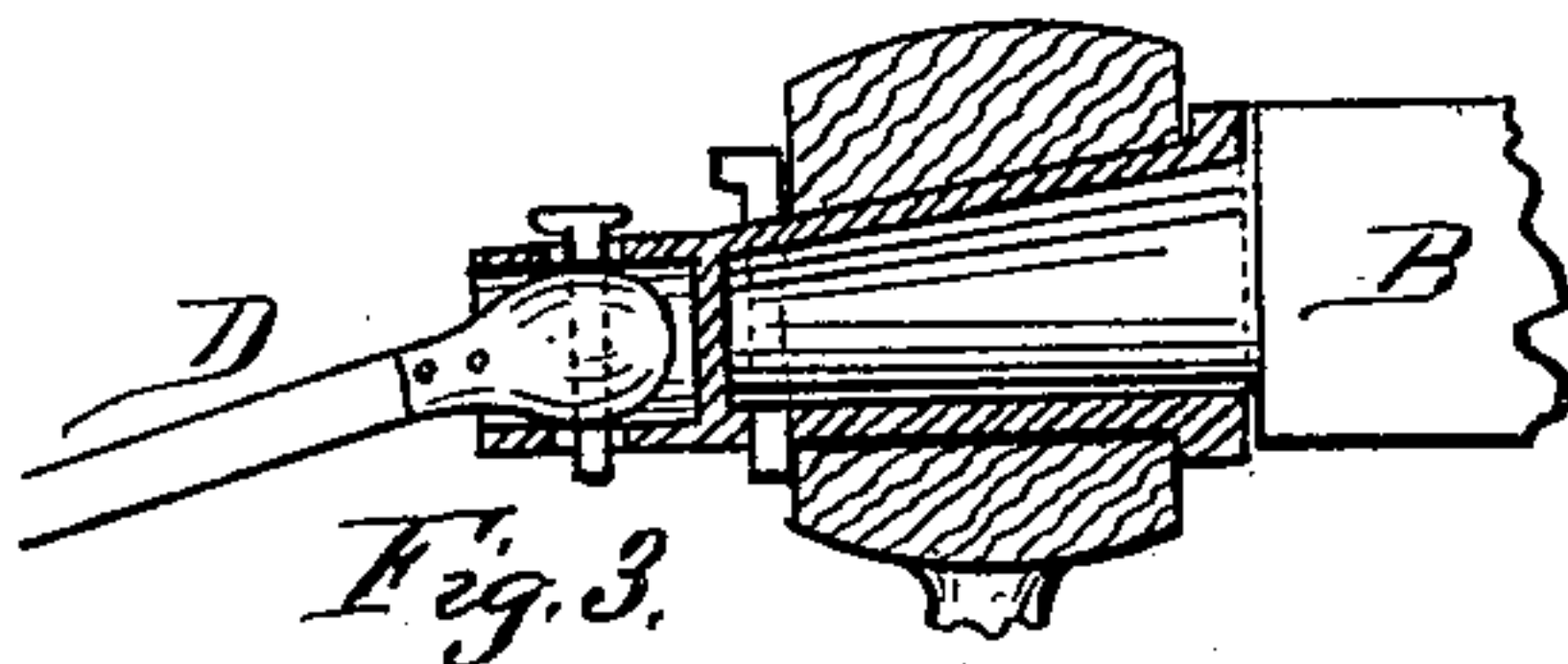
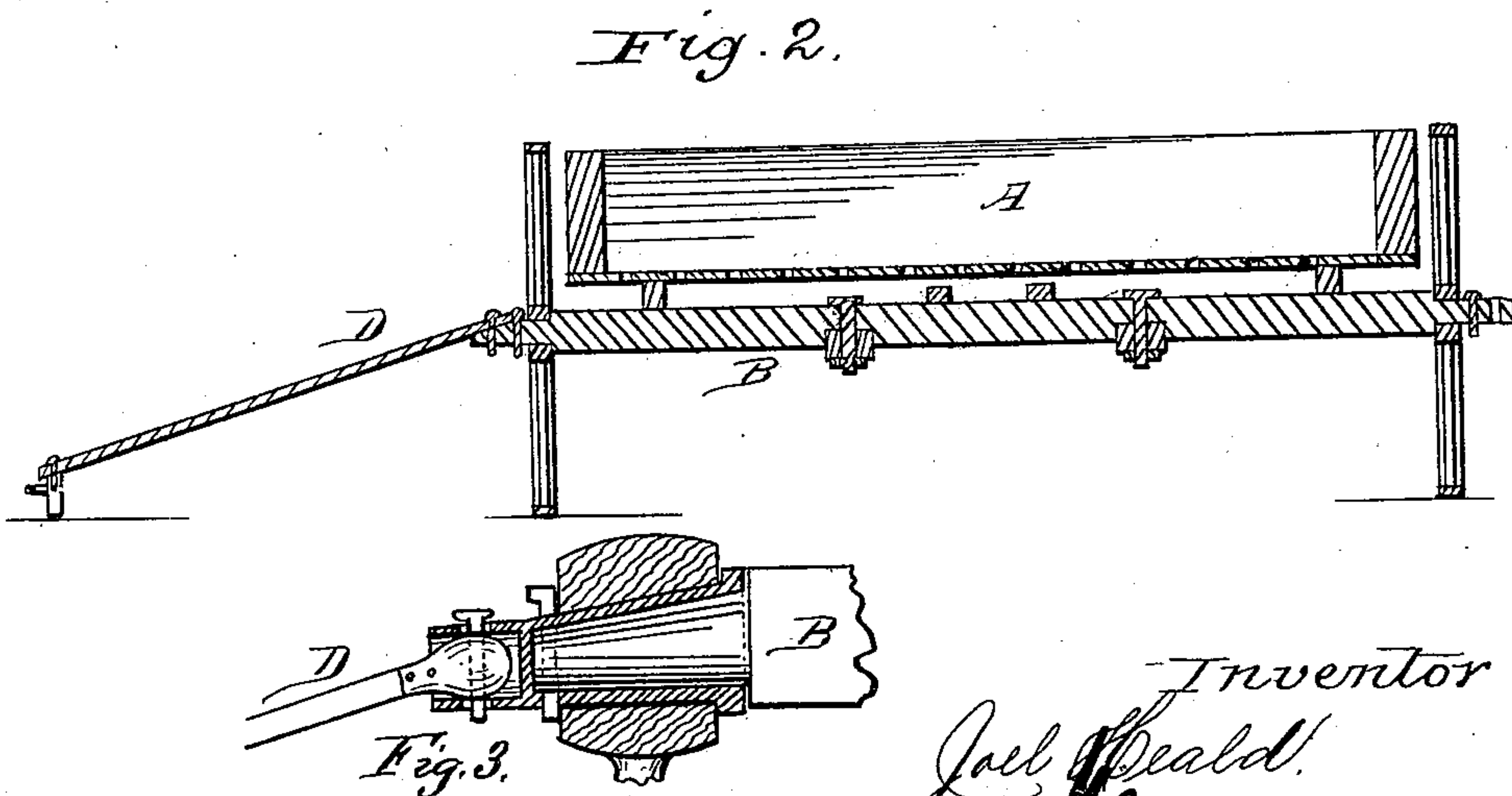
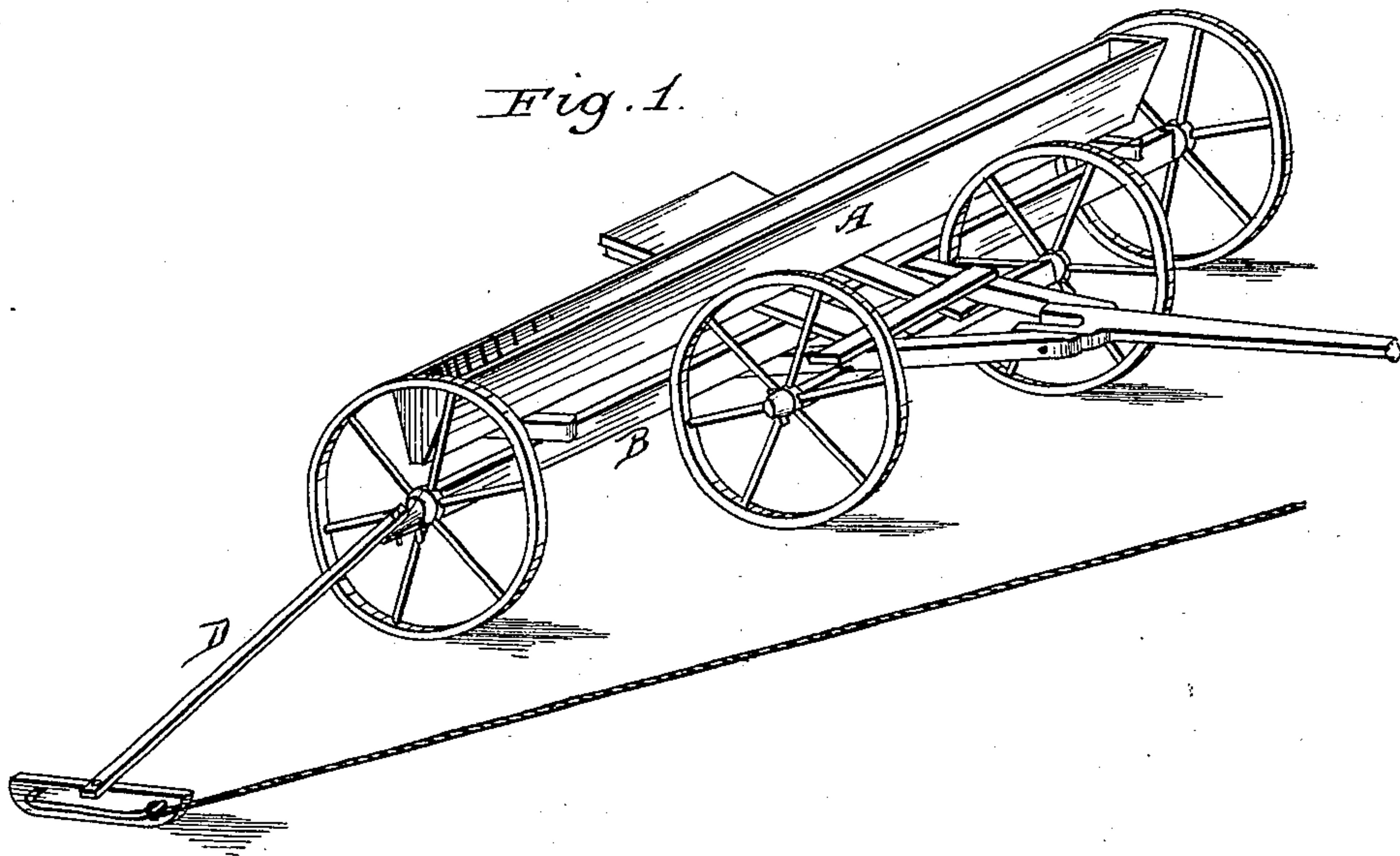


(No Model.)

J. HEALD.  
CHECK ROW MARKER.

No. 282,888.

Patented Aug. 7, 1883.



WITNESSES  
*W. Johnson*  
*H. H. Taylor*

Inventor  
*Joel Heald*  
*W. Johnson*

Attorney



# UNITED STATES PATENT OFFICE.

JOEL HEALD, OF OAK GROVE, IOWA.

## CHECK-ROW MARKER.

SPECIFICATION forming part of Letters Patent No. 282,888, dated August 7, 1883.

Application filed April 26, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOEL HEALD, a citizen of the United States of America, residing at Oak Grove, in the county of Poweshiek and State of Iowa, have invented certain new and useful Improvements in Check-Row Markers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in broadcast seed-sowers and check-row markers; and it consists in providing a broadcast seed-sower with an axle which is provided with means for attaching the hounds of an ordinary wagon thereto; also, in providing said axle with end projections for the reception of the arm of a land-marker, as will be hereinafter more fully set forth, and pointed out in the claims.

In the annexed drawings, which illustrate my invention, Figure 1 is a perspective view. Fig. 2 is a transverse section, and Fig. 3 is a detail view.

A represents the seed-box of an ordinarily-constructed seed-sower, which is attached above the axle B by means of blocks, so as to allow a space between the same. This axle is perforated near its center for the reception of bolts, by means of which the hounds of an ordinary wagon may be attached thereto. This axle is provided at its ends with extended spindles, which project beyond the hub of the wheel. To one of these extended spindles, as described, when the implement is in use, I attach the arm D, which carries at its end a marker which is provided at its outer side with a bail, to which is attached a cord or other flexible connection, which may be attached to the collar of the horse on the side of the pole corresponding with the marker. The inner end of this arm is provided with suitable means for attaching the same to the spindle, which may consist of a cup-shaped end, through which a pin is passed, said cup extending over the end of the spindle and bear-

ing against the outer end of the hub. Forwardly of the seed-sower is attached the running-gear and hounds of the ordinary farm-wagon, the ends of the hounds being bolted to the axle. Immediately above the axle of the running-gear I attach two arms, which pass over the axle of the seed-sower, and are bolted thereto, the rear end of these arms being provided with a seat for the accommodation of the driver, which seat is in a suitable locality for operating the seed-slides.

It will be noticed that by my invention, as hereinbefore described, I dispense entirely with the front wheels of an ordinary seed-sower, and am able to furnish the same to farmers at a reduced cost; and when it is desired to use the seed-sower it is only necessary to attach the hounds of an ordinary wagon, and the machine is ready for use.

The corn-marker hereinbefore described can be readily changed from one side of the implement to the other, and the said arm in practice will be double the length of the space between the wheels. Thus, when the implement is driven over the field, it will lay off five rows at a time, and will leave a central space for a passage-way for wagons when the corn is harvested; or said mark may be used as a gage-line for the wheel of the wagon-gear when it is desirable to mark off the field without leaving any space. It will also be noticed that the axles are rigidly connected to each other, so that the implement will keep in a straight line unless excessive pressure is brought to bear against the pole.

When it is desired to turn the implement from a straight course, the driver dismounts from his seat, and, grasping the same bodily, raises the seed-sowing attachment and turns the same upon the front wheels.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the hounds, axle, and wheels of an ordinary farm-wagon, the rear axle provided with means for attaching the same thereto, the seed-sowing attachment and land-marker, substantially as described, and for the purpose set forth.

2. In combination with the forward axle and

running-gear of a farm-wagon, the rear axle  
having a length of about three times greater  
than the length of the front axle, and the corn-  
marker attached to the outer end of the spin-  
5 dle of the longer axle, said arm being twice  
the length of the forward axle, substantially  
as shown, and for the purpose set forth.

In testimony whereof I affix my signature in  
presence of two witnesses.

JOEL HEALD.

Witnesses:

B. F. ARNOLD,  
SARAH E. ARNOLD.