

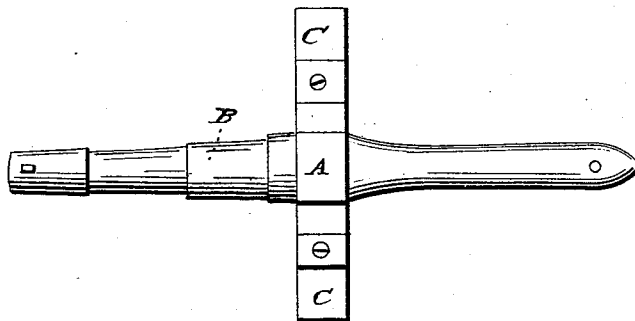
J. F. FISHER.

Grain Drill.

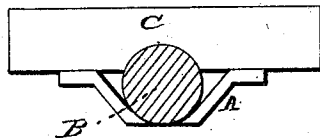
No. 101,991.

Patented April 19, 1870.

*Fig. 1*



*Fig. 2*



*Witnesses*

*Wm. H. Seaman*

*Wm. R. Free*

*Inventor*

*John F. Fisher*

*Daniel Breed Atty*

# United States Patent Office.

JOHN F. FISHER, OF GREENCASTLE, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND DANIEL BREED, OF WASHINGTON, DISTRICT OF COLUMBIA.

*Letters Patent No. 101,991, dated April 19, 1870; antedated April 7, 1870.*

## IMPROVEMENT IN AXLES FOR WHEAT-DRILLS.

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, JOHN F. FISHER, of Greencastle, in the county of Franklin and State of Pennsylvania, have invented a new and useful Improvement in Axles for Wheat-Drills; and I declare that the following is a full and exact description thereof.

In manufacturing wheat-drills it is very difficult to keep the frame securely fastened to the axle, and various means have been resorted to for this purpose.

My invention consists in a peculiar brace running from the lower part of the axle to the bed or frame of the machine.

In the accompanying drawing—

Figure 1 is a bottom view of the cast-iron end of the axle, with its brace fastened to the bed or frame of the machine.

Figure 2 is a side view of the same, showing the spindle in section just outside of the bed or frame.

In the drawings—

The axle is seen at B, and a portion of the frame C resting thereon, as shown in fig. 2.

The brace A may be cast as part of the axle B, as shown in fig. 2. By this construction a small amount of metal is most advantageously employed to hold the axle.

It will be observed that the ends of the braces A are not so high as the top of the axle, a notch being

cut in the frame to fit the same to the axle, while the ends of the braces are fastened to the frame by wood screws or bolts, as shown in fig. 1, without any notch for the braces.

By this construction it is not half the labor to fasten the frame that it is when a bed-plate is cast on the top of the axle, and extending out on both sides, requiring a long notch to be cut in the wood for receiving such bed-plate.

By experience I find it difficult to fit such long plate so it will not sooner or later work loose and rock in the notch of the frame. But with braces there are but three points of bearing, and by a short notch in the frame the bed C can easily be brought home to these three points of rest, and more easily be fastened in place than in the old ways.

My brace may be made separate from the axle, but this is not so good.

Having described my invention,

I claim—

The above-described brace A, in combination with the axle B, for the purposes substantially as specified.

JOHN F. FISHER.

Witnesses:

WILLIAM O. APPENZELLAR,  
DAVID GAFF.