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B. W. JAGER.  
Improvement in Thill Coupling.

No. 122,724.

Patented Jan. 16, 1872.

Fig. 1

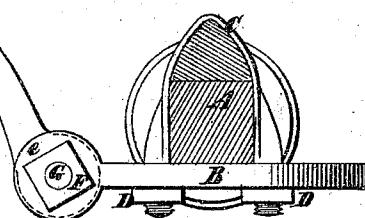


Fig. 2

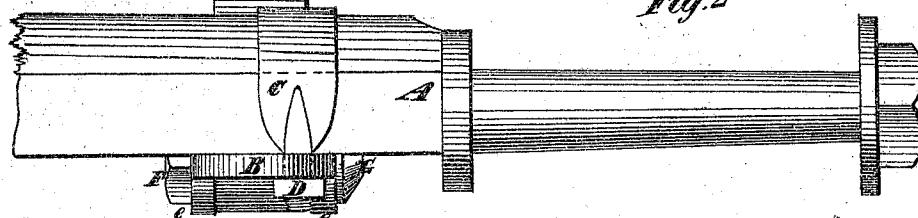


Fig. 3

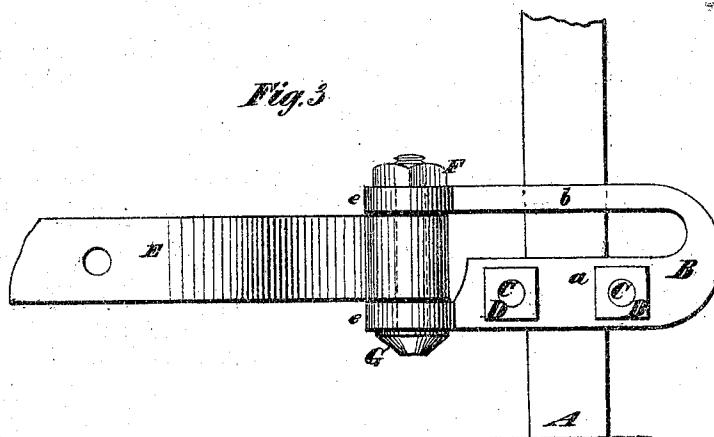
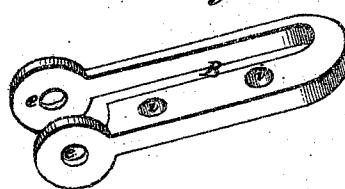


Fig. 4



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## UNITED STATES PATENT OFFICE.

BENJAMIN W. JAGER, OF HAINESVILLE, NEW JERSEY.

## IMPROVEMENT IN THILL-COUPINGS.

Specification forming part of Letters Patent No. 122,724, dated January 16, 1872.

Specification describing an Improved Thill-Coupling, invented by BENJAMIN W. JAGER, of Hainesville, in the county of Sussex and State of New Jersey.

This thill-coupling is composed of a **U**-shaped strap provided at its ends with eyes for the reception of the coupling-bolt, one jaw of the **U** being broad to form a bearing against the axle, and having holes in it for the reception of a clip, by which it is secured to the axle, leaving the other jaw, which is narrower, free to spring and be adjusted to the thickness of the thill, so that when the bolt is in its place there will be no rattling of the joint.

In the accompanying drawing, Figure 1 is a side view of the coupling applied to an axle. Fig. 2 is a back view of the same. Fig. 3 is an inverted plan thereof; and Fig. 4 is a perspective view of the coupling detached.

Similar letters of reference indicate corresponding parts in all the figures.

A represents the end portion of an ordinarily-constructed front axle. B is the coupling, composed of a **U**-shaped strap or plate, which fits under the axle. One, *a*, of the jaws of this strap is much wider than the other, *b*, and is provided with two holes, *i i*, for the passage of the screw-threaded ends of a clip, C, which is put over the axle and through the said holes

and secured by nuts D D, thereby securing the broad side or jaw *a* of the coupling B firmly to the axle. On each end of said coupling B there is an eye, *e*, that in the jaw *a* being preferably formed on the extreme outer side thereof, in order to bring the draft more nearly in a line through the clip C. This eye is square on its interior for the reception of a square boss on the inner side of the head of the connecting-bolt G, and the latter is thereby prevented from turning. The bent portion of the strap B is made light enough to allow the free jaw *b* of the strap to spring and adjust itself or be adjusted snugly to the thill, that there may be no rattling or looseness when the bolt G is put in. The connecting-bolt G passes through the eyes *e e* on the strap B, and through a socket in the thill E, and thereby secures them together.

*Claim.*

The coupling, consisting of the **U**-shaped strap B, having one rigid and one springing adjustable jaw, and provided with eyes *e e* and holes *i i*, substantially as herein described.

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