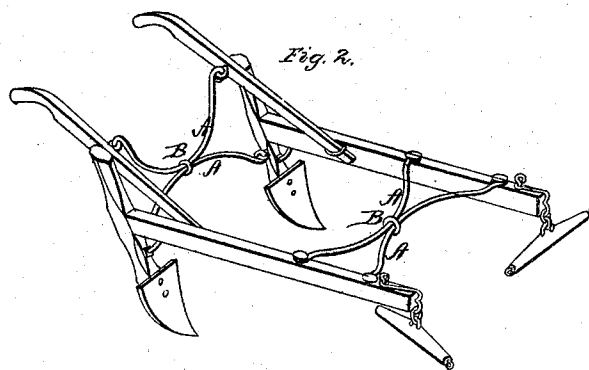
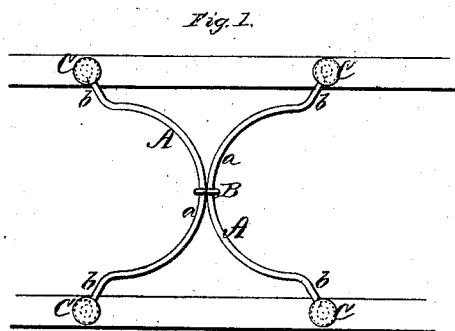


C. M. HALL.
Adjustable Brace-Couplings.

No. 137,609.

Patented April 8, 1873.



Witnesses
John A. Ellis.
Wm. H. Ellis

Inventor
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Per
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Attys

UNITED STATES PATENT OFFICE.

CYRUS M. HALL, OF YATES CITY, ILLINOIS.

IMPROVEMENT IN ADJUSTABLE BRACE-COUPPLINGS.

Specification forming part of Letters Patent No. **137,609**, dated April 8, 1873; application filed March 8, 1873.

To all whom it may concern:

Be it known that I, C. M. HALL, of Yates City, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Adjustable Brace-Couplings; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of an adjustable brace-coupling which may be used for a variety of purposes, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a plan view of my coupling, and Fig. 2 is a perspective view, showing my coupling applied to a cultivator.

A A represent two brace-rods bent in the center to form bails *a a*, and their ends curved outward, so that when the two bails are placed with the back together and held by a loose ring, B, the four ends *b b* will stand outward from the ring in different directions, but at the same relative angle with the ring. Each end *b* has a hole for a bolt, C, to pass through, or it may be provided with hook and eye, the former forming a direct joint, and the latter a swivel-joint, for the attachment of the brace-rods to the parts where they are to be applied.

This coupling may be used for a variety of purposes. Where two or more parts are to be adjustably united together, the gradual curved parts of the bails *a a* passing through the ring B allow either part to be moved in advance of the other when used horizontally, or above the other when used perpendicularly.

In Fig. 2 I have represented the coupling applied to a cultivator, both between the plow-beams and between the plow-standards, whereby it is readily seen either plow may be moved in advance of the other, and also either plow raised above the other, as occasion may require, without disturbing their relative position.

There are also other advantages resulting from the employment of this coupling in this combination, which it is not necessary here to enumerate. Any desired number of plows may be coupled together in the same manner.

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

The combination of the brace-rods A A bent, as described, to form the bails *a a*, and the outwardly-curved ends *b b*, the loose ring B, and the bolt or swivel-joints C C, to form an adjustable brace-coupling, as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

CYRUS M. HALL.

Witnesses:

M. MEEKS,
C. E. HALL.