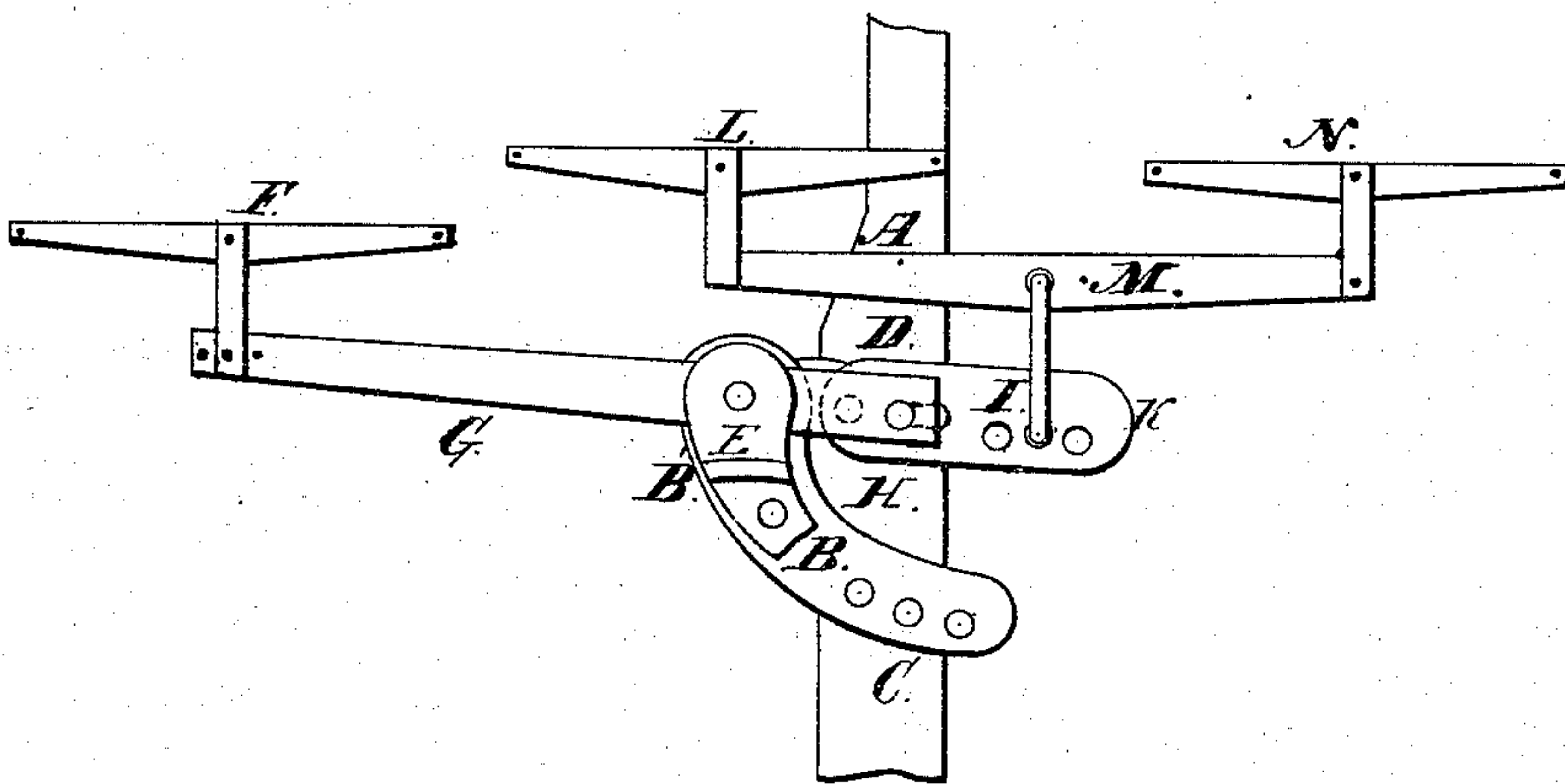


J. ELDER.  
Draft-Equalizers.

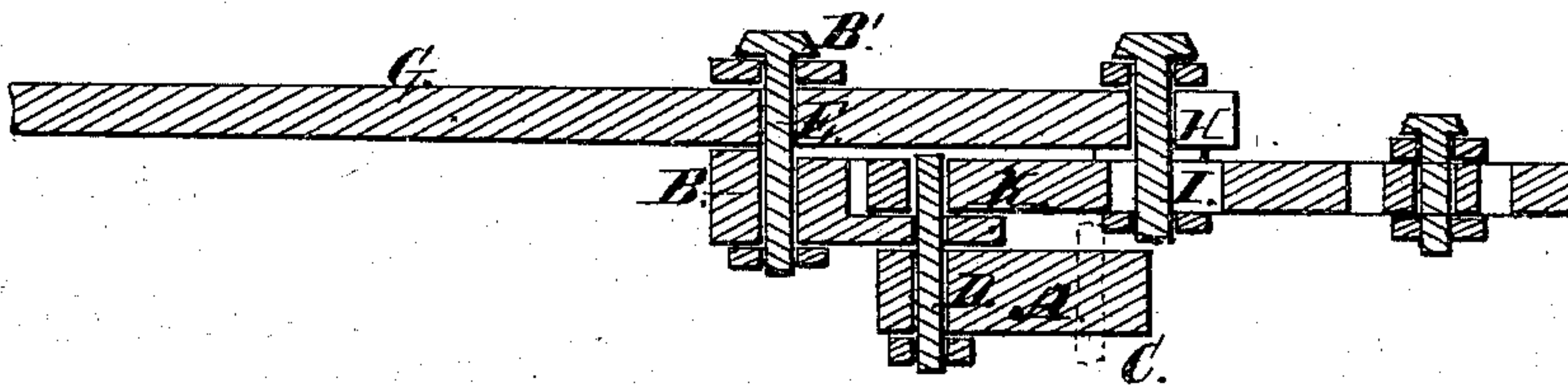
No. 152,733.

Patented July 7, 1874.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
R. M. Marshall.  
Jno. H. Scully.

Inventor:  
James Elder.  
By Saml. J. Wallace.  
Attorney.

# UNITED STATES PATENT OFFICE.

JAMES ELDER, OF CARTHAGE, ILLINOIS.

## IMPROVEMENT IN DRAFT-EQUALIZERS.

Specification forming part of Letters Patent No. **152,733**, dated July 7, 1874; application filed December 20, 1873.

*To all whom it may concern:*

Be it known that I, JAMES ELDER, of Carthage, Hancock county, Illinois, have invented an Improvement in Triple-Trees for Draft-Teams, of which the following is a specification:

The object of this invention is to form an improved means of equalized draft for three horses working abreast, both with and without a guiding-tongue. The apparatus is made substantially as set forth hereinafter, referring to the drawings accompanying, in which—

Figure I is a top view of the apparatus. Fig. II is a vertical section of the same, to show the relations of most of the working parts.

The tongue A extends forward between two of the three horses abreast, and a little to one side of the center. To this a part, B, is attached by bolts C D, and projects to one side toward the center line of draft to hold the bolt E. Lever G is pivoted by bolt E, and bears at its outer end single-tree F, for one horse. The other end of lever G bears a pin, H, engaging in slot I of lever K, which allows the two levers to swing back and forth on their fixed pivots C E, as the draft of the several horses varies. The lever K is pivoted to part B by bolt C, and extends to the other side, having the double-tree M attached to its

out end. This double-tree bears the single-trees L N for horses, one on each side of the tongue A. The part B is arranged with an elevation at E, to hold lever G, so its inner end will rest over lever K, pivoted on a lower level. Part B also has a top portion reaching up over lever G to pin E.

To plows and such implements as have no guiding-tongue forward between the horses, part A constitutes the beam, and the part B is rigidly attached thereto instead of a clevis, the top and bottom portions of part B extending directly back from pin E to the top and bottom surfaces of the beam, to which they are attached.

I claim—

1. Levers G K, pivoted to part B at E D, and connected by pin H and slot I, and bearing double and single trees M N L F, all combined as set forth.

2. The tongue A and part B, bearing the triple-tree, combined substantially as and for the purpose set forth.

3. The part B, bolts C D, the part A and levers G K pivoted to it, all combined substantially as set forth.

JAMES ELDER.

Witnesses:

SAML. J. WALLACE,  
WM. EDWARDS.