

H. W. MATHEWS.
Improvement in Land Rollers.

Fig. 1.

No. 126,471.

Patented May 7, 1872.

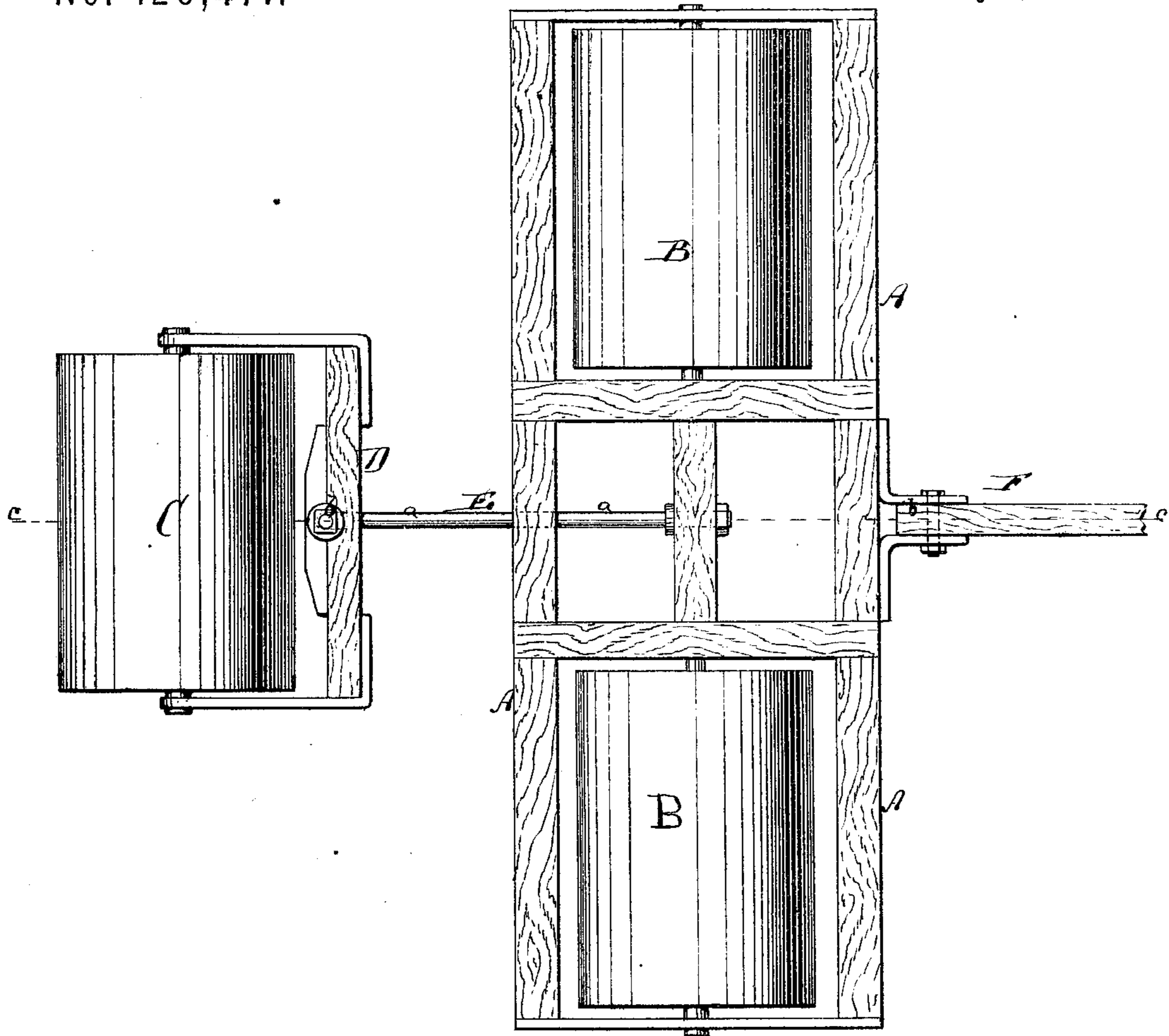
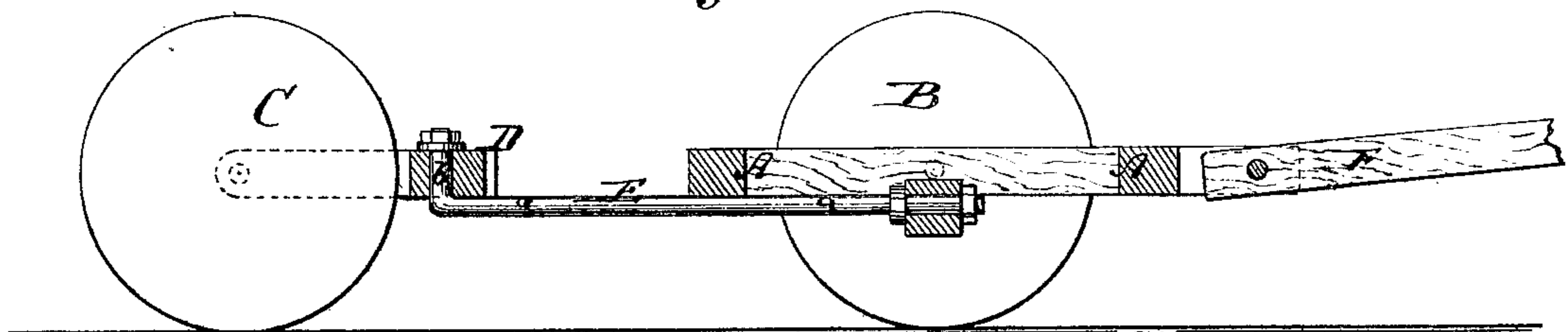


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN LAND-ROLLERS.

Specification forming part of Letters Patent No. 126,471, dated May 7, 1872.

Specification describing a new and Improved Land-Roller, invented by HOLLOWAY W. MATHEWS, of Frenchtown, in the county of Hunterdon and State of New Jersey.

Figure 1 represents a plan or top view of my improved land-roller. Fig. 2 is a vertical transverse section of the same on the line *c c* of Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new manner of connecting the back frame of the third roller to the main or front frame holding the two front cylinders of a land-roller. The object is to permit the application of a limbered tongue, whereby much strain is taken from the horses' necks.

The land-rollers with jointed back sections have heretofore been always made with rigidly-connected tongues, and occasioned, therefore, a greater strain on the draft animals than would be the case with a limbered tongue. The difficulty of applying the latter is that by the double joint the front section of the roller would become wholly unmanageable; still more so the back section. In order to overcome this difficulty I have provided a joint which will make the back section rigidly connected as far as the up-and-down adjustment is concerned—not otherwise. This will permit the use of a limbered tongue, since the entire frame-work

back of it is rigidly connected for all practical purposes.

A in the drawing represents the front frame of the land-roller, carrying the two front rollers B B. C is the back roller, hung in the back frame D. An L-shaped bar, E, connects the front and back frames A D. This bar is, with its long horizontal arm *a*, swiveled in the middle of the front frame, and extends backward under the middle of the back frame, as shown. The short vertical arm *b* of the bar E projects upward from the same, and is swiveled in the front of the frame D. This arrangement permits the frame D to swing to either side on the short arm *b*, and to incline to either side on the long arm *a*, while vertically it is rigidly connected with the frame A. Up and down, therefore, the frame D will swing, together with A, as though the two were one, while in every other direction the back frame has independent play. The tongue F can therefore be hinged to the frame A, as shown.

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

The connecting-rod E *a b*, applied to the frames A D, as and for the purpose described.

HOLLOWAY W. MATHEWS.

Witnesses:

T. B. MOSHER,
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