

LANE & HEALY.

Harrow.

No. 88,046.

Patented March 23, 1869.

Fig. 1

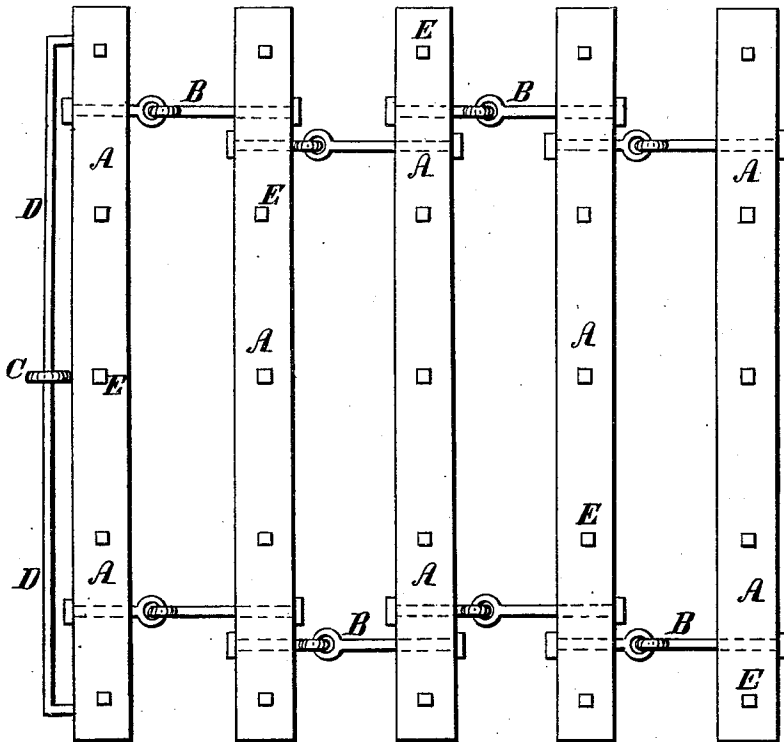
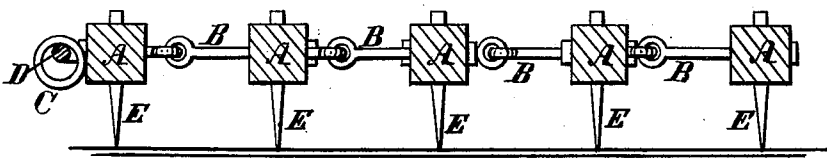


Fig. 2



Witnesses:

J. A. Morgan
P. B. Dietrich

Inventors:

C. Lane & J. M. Healy

Wm. L. Healy
attorneys



CHARLES LANE AND JESSE M. HEALY, OF JAMESTOWN, NEW YORK.

Letters Patent No. 88,046, dated March 23, 1869.

IMPROVEMENT IN HARROWS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, CHARLES LANE and JESSE M. HEALY, of Jamestown, in the county of Chautauqua, and State of New York, have invented a new and improved Flexible Harrow; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan or top view of our improved harrow.

Figure 2 is a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new harrow, which is composed of parallel bars, connected by means of jointed bolts, so as to produce a flexible harrow, which will adapt itself to uneven ground much better than a solid or stiff harrow, and which will be much easier handled, and occupy much less room when packed away, than the ordinary harrows now in use.

A A, in the drawing, are wooden and other bars, which are arranged parallel with each other, and at right angles to the line of draught, and which are con-

nected with each other by means of jointed bolts B B, near their ends, as shown.

The harrow-teeth E are fitted in suitable manner to or through the heads A A.

The draught is applied to a ring, C, which is fitted loosely upon a bar or rod, D, that is fastened with its ends to the front bar A, near to the ends of the same, as shown in fig. 1, and which is parallel with the front edge of said front bar A, as shown, so that the ring can freely play thereon.

By means of the bolts, the distances between the bars A can be adjusted at will, and any desired number of them may be used.

This harrow is much lighter than the solid ones, and will give, when it strikes a stone, or other obstruction, whereby it is less liable to break.

By the peculiar draught-arrangement, it will adjust itself to side-draught without affecting the team.

We claim as new, and desire to secure by Letters Patent—

A flexible harrow, consisting of the bars A A, that are connected by jointed bolts, as set forth.

CHARLES LANE.
JESSE M. HEALY.

Witnesses:

O. F. PRICE,
G. DUNHUE.