

C. KEEHNER.

HARROW.

No. 187,018.

Patented Feb. 6, 1877.

Fig. 1

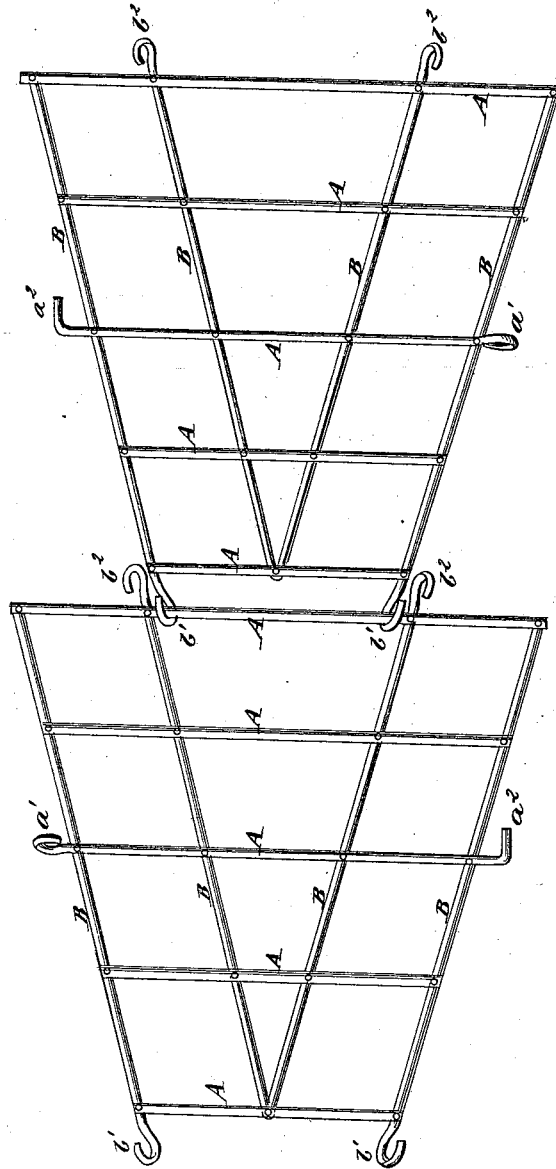
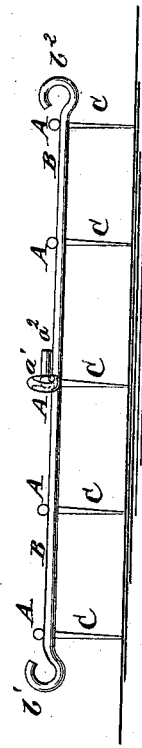


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES KEEHNER, OF ROSEVILLE JUNCTION, CALIFORNIA.

IMPROVEMENT IN HARROWS.

Specification forming part of Letters Patent No. 187,018, dated February 6, 1877; application filed November 4, 1876.

To all whom it may concern:

Be it known that I, CHARLES KEEHNER, of Roseville Junction, in the county of Placer and State of California, have invented a new and useful Improvement in Harrows, of which the following is a specification:

Figure 1 is a top view of my improved harrow. Fig. 2 is a side view of a section or part of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved harrow, which shall be simple in construction and convenient in use, being so constructed that the parts may be readily coupled together to form a large harrow.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A are the cross-bars of the harrow frames, and B are the longitudinal bars, which are securely attached to each other. The forward ends of the inner bars B meet at an angle, as shown in Fig. 1, and the outer bars are parallel with the inner bars. C are the harrow-teeth, which are attached to the bars A B. Upon the ends of the outer bars B, at the nar-

row end of the harrow, are formed hooks b^1 , and upon the ends of the inner bars B, at the wide end of the harrow, are formed hooks b^2 , which are designed for use in connecting the parts of the harrow together when desired, and which are also used for the attachment of the draft. Upon one end of the central cross-bar A is formed an eye, a^1 , and upon its other end is formed a right-angled hook, a^2 , so that the parts of the harrow may be connected together side by side, if desired.

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

A harrow-section formed of converging rods B B B B, connected by cross-rods A, the outer rods B having their nearer ends hooked, the inner having their farther ends hooked, and the middle rod A provided with a hook at one and an eye at the other end, as shown and described, so that by alternately reversing the sections they may be connected at the sides as well as in alignment.

CHARLES KEEHNER.

Witnesses:

PETER LEREHAN,

PETER SNYDER.