

(No Model.)

F. P. McFEELY.
BEAM FOR CULTIVATORS.

No. 467,296.

Patented Jan. 19, 1892.

Fig. 1.

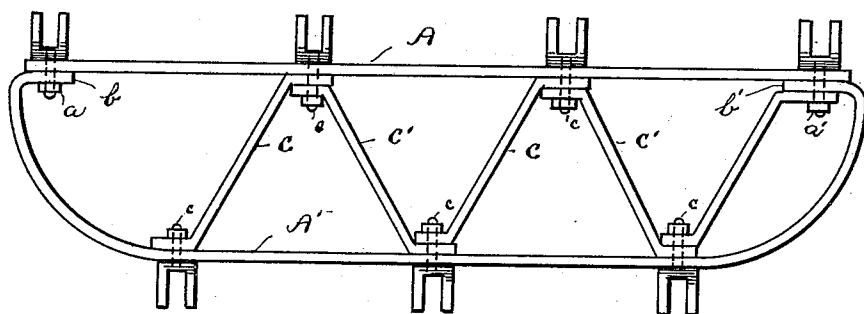
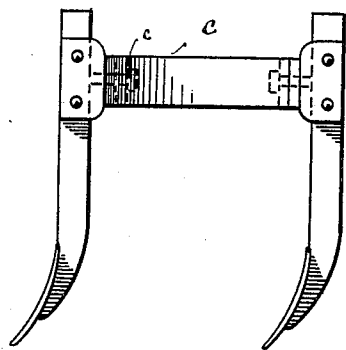


Fig. 2.



Witnesses.

H. J. Compton

H. J. Compton

Inventor.

Fredrick P. McFeely

By W. A. Acker
Att'y.

UNITED STATES PATENT OFFICE.

FREDERICK P. McFEELY, OF OAKLAND, ASSIGNOR TO D. E. BARTON, OF
SAN FRANCISCO, CALIFORNIA.

BEAM FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 467,296, dated January 19, 1892.

Application filed July 10, 1891. Serial No. 399,041. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK P. McFEELY, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Beams for Cultivators; and I do hereby declare the following to be a full, clear, and exact description of said invention, such as will enable others skilled in the art to which it most nearly appertains to make, use, and practice the same.

My invention has relation to certain new and useful improvements in beams for cultivators, harrows, &c., which consists in the arrangement of parts and details of construction, as will be hereinafter more fully set forth.

The object of my invention is to provide a beam which shall be simpler in its construction, lighter in weight, and provide a tensile strength equal to any heretofore known to me, and which shall be so constructed as to overcome liability of the same being broken by contact with trees or the like by reason of the end corners thereof abutting thereagainst.

Referring to the drawings forming a part of this specification, wherein similar letters of reference are used to denote corresponding parts, Figure 1 is a top plan view of my improved beam, and Fig. 2 a cross-sectional view thereof in elevation.

My improved beam consists of two strips of metal A and A', suitably united at the ends thereof by means of bolts a a'. The strip A' has its ends formed on a curve or incline and provided with inturned flanges b b', which form a seat for the side piece A. By forming the ends curved, beveled, or inclined I overcome liability of the beam breaking by reason of contact with trees or stumps in the road of travel of the cultivator, thereby contriving for the same sliding there off.

In order to strengthen the beam, I provide the strengthening-pieces C C', which are bolted to the side pieces A A' by means of suitable bolts c, which bolts at the same time serve to fasten to the beam the cultivator-clamps for the teeth thereof. I have shown a series of strengthening-strips running at an incline and united one to the other and to

the side pieces; but it is obvious that the strengthener may consist of one continuous piece bent at such angles as to fit between the side pieces and be suitably united thereto, or the same may consist of cross-pieces placed therebetween and bolted thereto; but I prefer the form shown in the drawings. These strips serve to overcome sagging of the beam and prevent breakage thereof by contact with stumps or the like. By thus constructing the beam I secure a tensile strength equal to that, or nearly so, of any solid steel beam, and at the same time use less material in the construction thereof and provide for simplicity in the making thereof.

Having thus described my invention, what I claim as new, and desire to secure protection in by Letters Patent of the United States, is—

1. A beam for cultivators, harrows, or the like, consisting of two metal strips, one of said strips being somewhat longer than the other and curved or bent so as to form a rounded end and having inturned flanges in order to provide a rest or seat for the opposite side piece, and strengthening-pieces secured between the beam-pieces and at an incline to one another, substantially as and for the purpose set forth.

2. A beam for cultivators, harrows, or the like, consisting of two metallic strips so united as to form inclined, beveled, or curved ends, a strengthening-strip flanged therebetween and secured thereto, and the cultivator-clamp flanged alternately on either side thereof for attaching the cultivator-teeth, as and for the purpose set forth.

3. A beam for cultivators or the like, consisting of two horizontal bars united so as to form inclined, beveled, or curved ends, a strengthening-strip arranged therebetween, and the shovel-carrying standards arranged alternately to either side thereof, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK P. McFEELY.

Witnesses:

N. A. ACKER,
J. W. KEYS.