

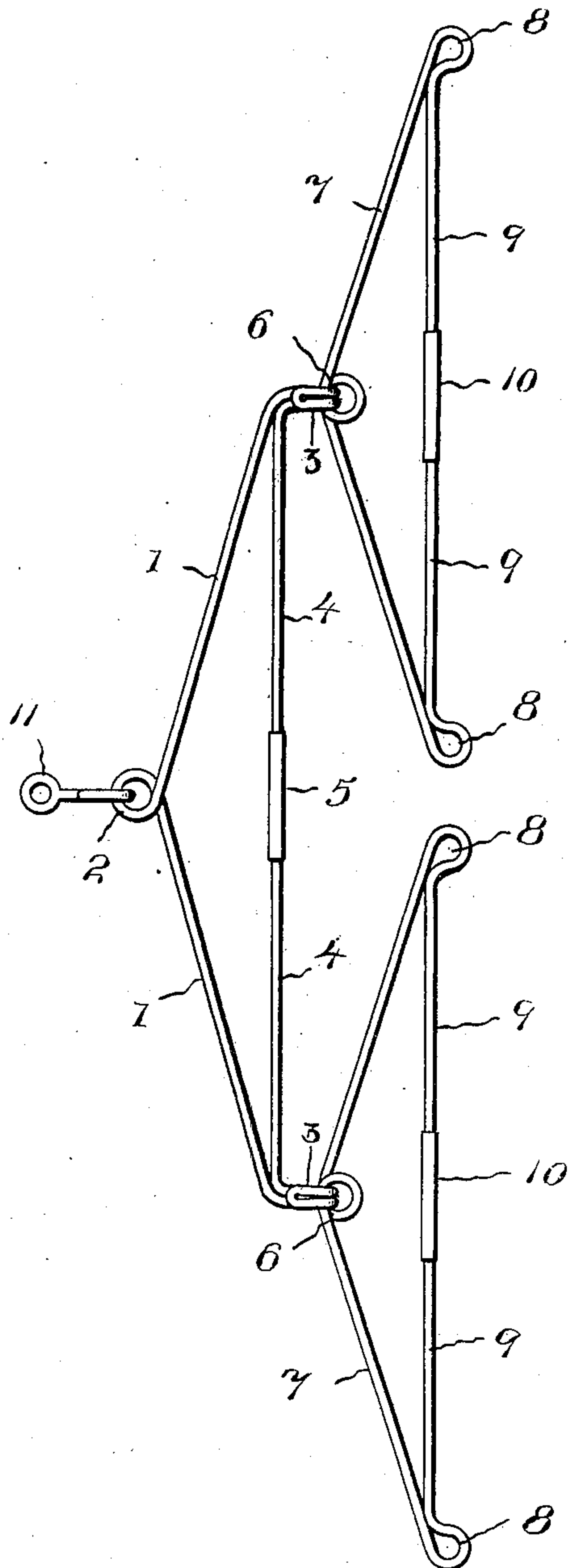
No. 762,694.

PATENTED JUNE 14, 1904.

J. DUPERRON.
DRAFT EQUALIZER.

APPLICATION FILED OCT. 17, 1903.

NO MODEL.



Inventor

Julian Duperron.

Witnesses

J. W. Riley.
Herbert Dawson

By

Victor J. Evans
Attorney

Attorney

UNITED STATES PATENT OFFICE.

JULIAN DUPERRON, OF PROVEMONT, MICHIGAN.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 762,694, dated June 14, 1904.

Application filed October 17, 1903. Serial No. 177,482. (No model.)

To all whom it may concern:

Be it known that I, JULIAN DUPERRON, a citizen of the United States, residing at Provemont, in the county of Leelanau and State of Michigan, have invented new and useful Improvements in Draft-Equalizers, of which the following is a specification.

My invention relates to new and useful improvements in draft-equalizers; and its object is to provide a simple, compact, and durable device of this character which is especially adapted for use in plowing or harrowing orchards.

The invention consists in providing an equalizer which is formed in a single strip of metal so bent as to overcome the formation of sharp corners or other projections which are liable to contact with and tear bark from trees during the plowing or harrowing operation.

The invention also consists in the novel construction and combination of the several parts, which will be more fully hereinafter described and claimed, and illustrated in the accompanying drawing, which is a plan view of my improved draft-equalizer having swingle-trees similarly constructed and connected thereto.

Referring to the drawing by numerals of reference, 11 are inclined arms extending from opposite sides of a centrally-located loop or eye 2, and these arms terminate in hooks 3, adapted to engage swingle-trees. Rods 4 extend inwardly from the hooks, and the ends thereof abut and are inclosed by a sleeve 5, which serves to hold them against displacement. This sleeve may be secured to one of the rods 4 or can be detachably fastened in any suitable manner upon both of the rods. The hooks 3 serve to engage loops or eyes 6, arranged between oppositely-extending inclined arms 7, which are similar to the arms 1 and terminate in eyes 8. Rods 9 extend inwardly from the eyes 8, and the ends thereof abut and are inclosed by a sleeve 10, similar to the sleeve 5, hereinbefore referred to. A hook 11 is adapted to be placed in engagement with the eye 2 and is employed for at-

taching the whiffletree to a load, while the draft-animals are connected to the swingle-trees in any ordinary manner. As there are no projecting corners to the draft-equalizer, it is obvious that should the same be accidentally drawn into contact with a tree it would not injure it.

I attach importance to the construction of my improved whiffletree, the terminal ends of the arms 1 of which are bent double, said doubling of the metal being accomplished by bringing it together at said terminal ends and arranging it side by side, and by forming the parts as above stated I am enabled to produce hooks 3. The single free portions of the metal are extended inwardly from said hooks toward each other in a straight line the terminal ends of which abut one against the other, and said ends are secured together by a tubular sleeve which wholly incloses the same. By means of the bends in constructing the hooks greater strength is given to the whiffletree when strain is brought to bear on the same when a pull on the swingle-trees is made.

Having thus fully described the invention, what is claimed as new is—

A draft-equalizer comprising a whiffletree constructed of a single piece of suitable metal having oppositely-arranged inclined arms provided with an eye at their central portions, said arms at their terminal ends being bent double so as to bring the single piece of metal together, side by side, whereby to form hooks, the single free ends of the metal at the intersection of the hooks being extended inwardly in a straight line toward each other so that their terminal ends will abut one against the other and a tubular sleeve for wholly surrounding the said ends and rigidly securing them together, substantially as specified.

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

JULIAN ^{his} × DUPERRON.
mark

Witnesses:

CARSON WARNER,
JOSEPH HOHNENBERG.