

Nov. 29, 1932.

D. ELDER

1,888,982

CULTIVATING TOOL

Filed Nov. 18, 1929

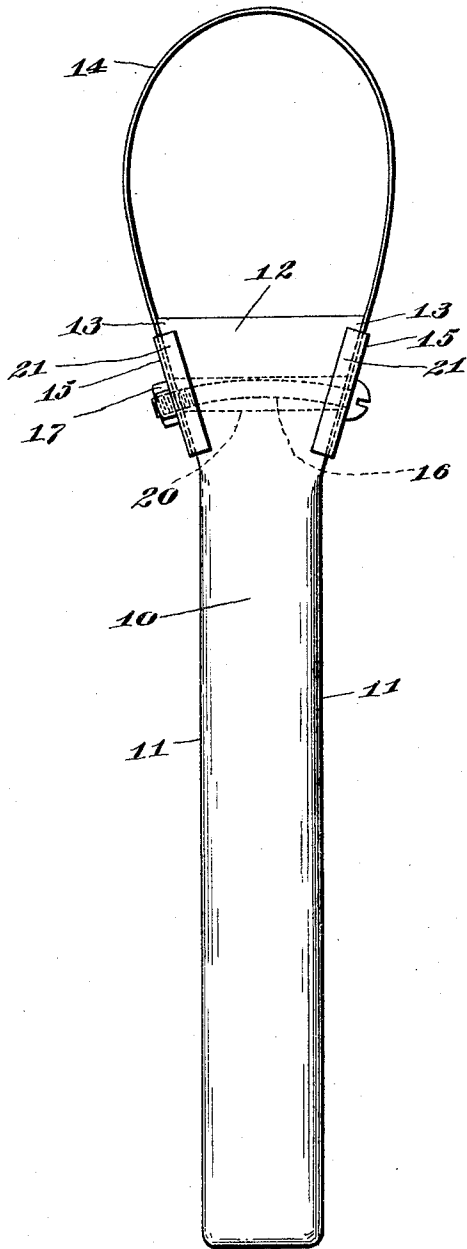


Fig. 1.

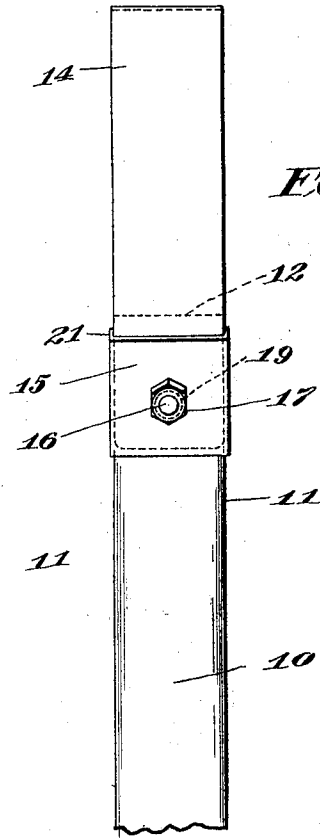


Fig. 2.

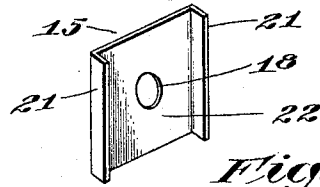


Fig. 3.

Inventor
David Elder.

By James C. Hamilton,
Attorney

UNITED STATES PATENT OFFICE

DAVID ELDER, OF WAVERLY, MASSACHUSETTS

CULTIVATING TOOL

Application filed November 18, 1929. Serial No. 407,858.

My present invention relates to cultivating tools, and more particularly to a hand cultivating tool, hereinafter referred to as a "weeder," designed for the purpose of removing weeds from around growing plants, and also for the purpose of loosening the soil thereabouts to better stimulate the growth of the plants.

I am well aware that there have been various attempts to produce weeders of this type some of which have met with more or less commercial success, but in most instances the weeder has been so constructed that long life of the instrument has been impossible due to breakage of the relatively thin material necessitated in the loop of the instrument. One of the chief reasons for this premature breakage lies in the fact that in nearly all of these instruments, an improper anchorage or holding means have been present. With the above facts in mind, I have developed a weeder that is very simple and strong, light in construction and symmetrical in design.

My principal object therefore is an improved weeder;

Another object is a weeder provided with reinforced clips to securely hold the loop-blade and prevent premature breakage from continuous bending movements.

Other objects of the invention will be noted as the description of the invention progresses.

In the accompanying drawing,
 Fig. 1 is an end elevation;
 Fig. 2 is a side elevation thereof, and
 Fig. 3 is a detail perspective view of one of the clips employed to anchor the blade of the instrument.

Referring to the drawing, 10 indicates a handle preferably made of wood or some other equally light material having a rectangular cross section with corners rounded off at 11 where the hand of the operator contacts with the handle 10. The blade end of the handle 10 is fan-shaped as indicated at 12, being provided with outwardly extended sides 13, the rearward portions of which converge toward a common point within the handle 10.

A curved loop 14, made from a thin band of spring steel corresponding to that which is used in clock springs, is clamped to the sides 13, of the handle 10, by means of clamps 15, and held firmly thereby, by means of bolt 16, and nut 17. The bolt 16 passes through the opening 18, in the clamp 15, opening 19 in the blade 14, and the opening 20, in the handle 10.

The clamp 15 is also provided with flanged sides 21, for the purpose of preventing said clamps from turning around upon the handle side members 13 as a result of any movement of the blade 14 which fits closely between the flanges 21, and against the inside surface 22, of the said clamps 15.

In operation, the weeder is held in the hand of the operator, and the blade 14 is engaged with the earth in an edge-wise manner, cutting and loosening the earth around the plants, and at the same time, breaking up and dislodging such weeds as may be present.

I am aware that the broad idea of a weeder of the class above described is old, but I believe that the improvement herein mentioned and disclosed in the accompanying drawing is new, and having described my invention, what I claim as new, is:

1. In an improved hand cultivating tool of the class described comprising in combination, a handle provided at one end with obliquely disposed and perforated sides, a curved loop comprising a thin band of resilient material the two ends being perforated, perforated flanged clamps adapted to engage over the perforated ends of said loop, a binding member adapted to pass through said perforated members and bind said loop to said handle.

2. In an improved hand cultivating tool of the class described comprising in combination, a handle provided at one end with obliquely disposed and perforated sides, a curved loop comprising a thin band of resilient material the two ends being perforated, perforated flanged clamps comprising a flat sheet of material the two opposite sides of which are up-set for the purpose of engaging over the perforated ends of said loop, a binding member adapted to pass through

said perforated members and bind said loop to said handle.

3. In an improved hand cultivating tool of the class described comprising in combination, a handle provided at one end with obliquely disposed and perforated sides, a curved loop comprising a thin band of resilient material the two ends being perforated, perforated flanged clamps comprising a flat sheet of material the two opposite sides of which are up-set for the purpose of engaging over the perforated ends of said loop, means for binding said members together and maintaining said loop in a curved position.

In testimony whereof I have affixed my signature.

DAVID ELDER.

20

25

30

35

40

45

50

55

60

65