(No Model.)

R. H. DIXON.

PRUNING IMPLEMENT.

No. 466,879. Patented Jan. 12, 1892.

Fig. 3.

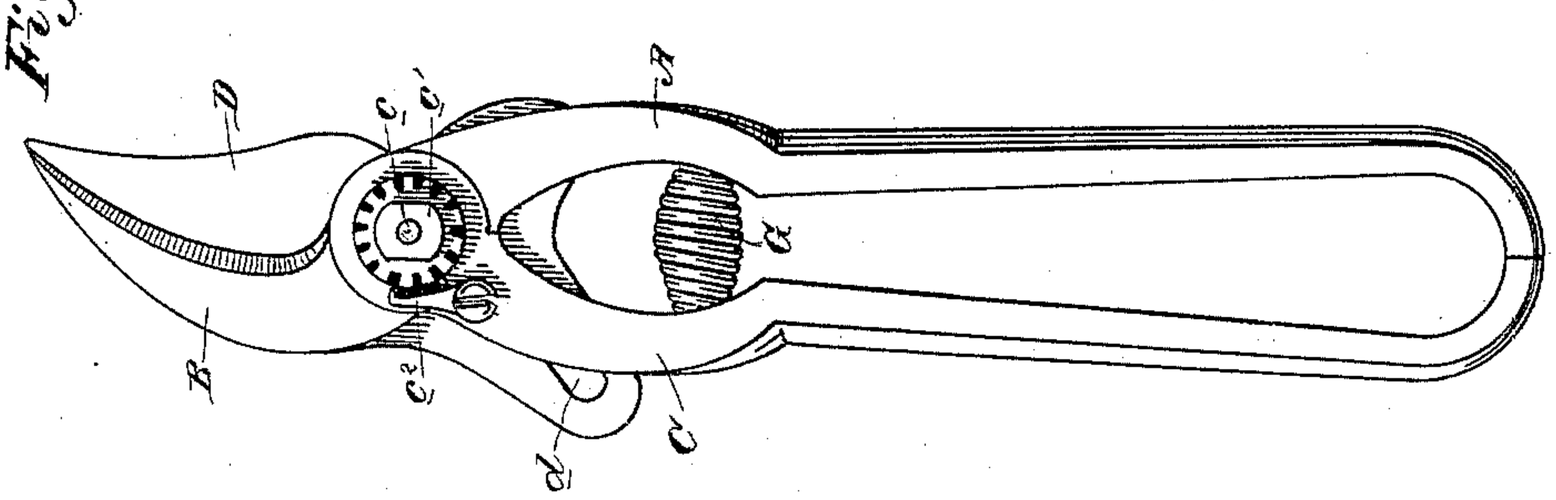


Fig. 2.

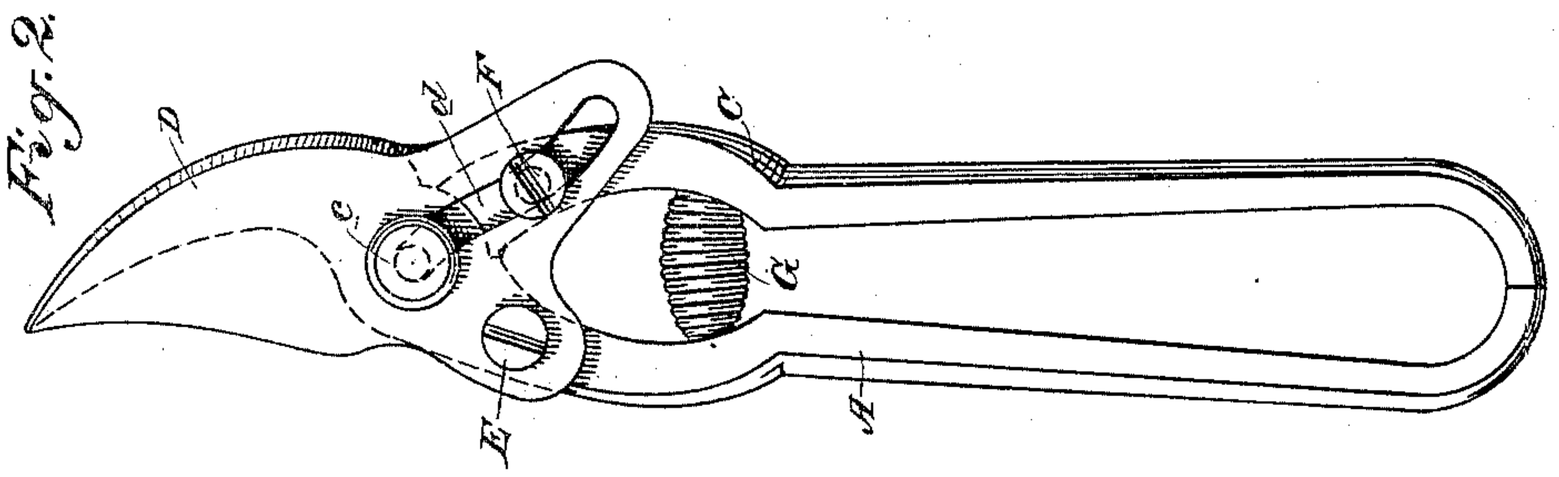
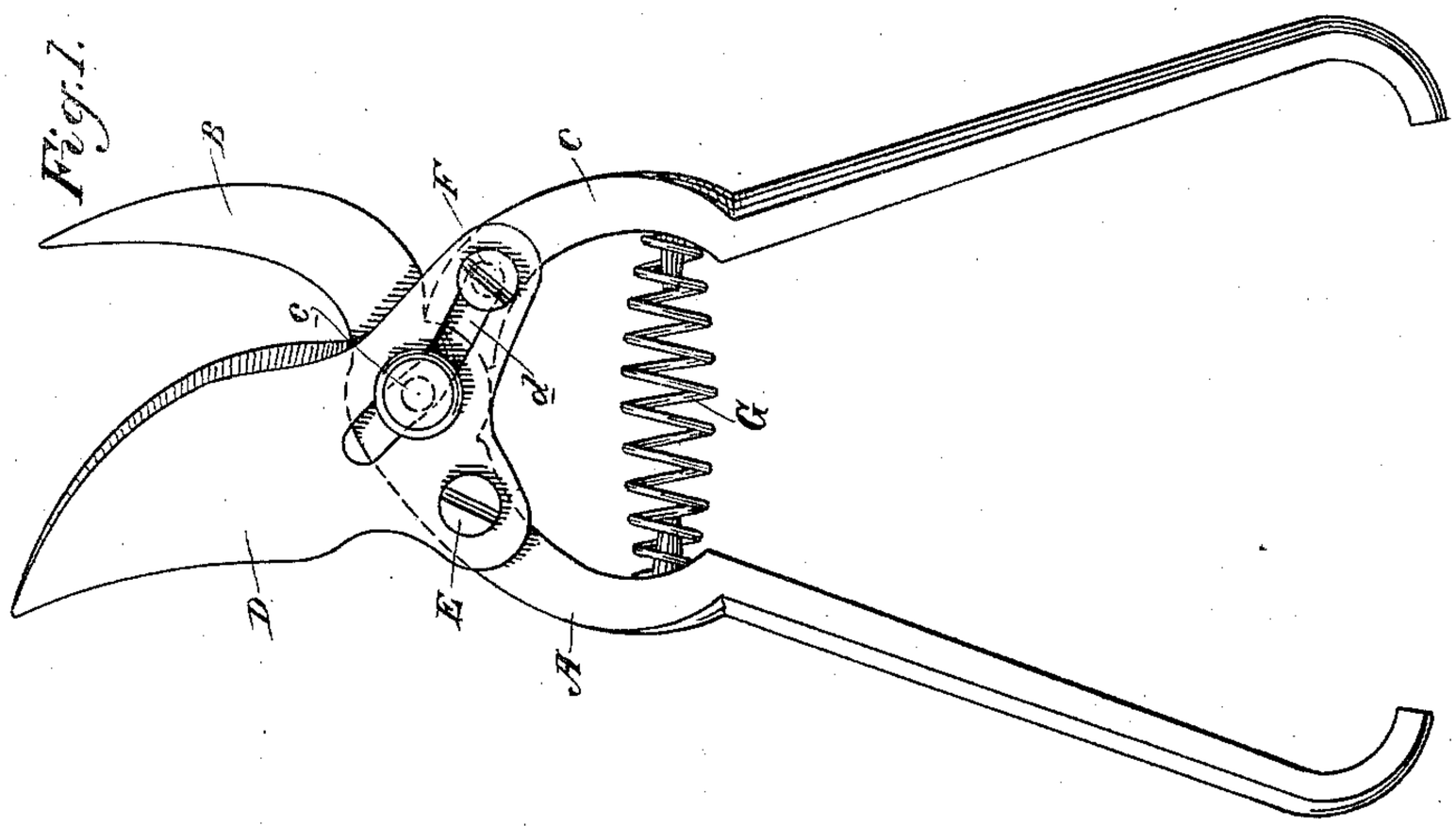


Fig. 1.



Witnesses,
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UNITED STATES PATENT OFFICE.

ROBERT HENRY DIXON, OF SANTA ROSA, CALIFORNIA.

PRUNING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 466,879, dated January 12, 1892.

Application filed April 16, 1891. Serial No. 389,220. (No model.)

To all whom it may concern:

Be it known that I, ROBERT HENRY DIXON, a citizen of the United States, residing at Santa Rosa, Sonoma county, State of California, have invented an Improvement in Pruning-Shears; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of shears in which one of the blades has a double movement to effect what is known as a "draw cut."

It consists in the novel connection of the blades and handles hereinafter fully described, and specifically pointed out in the claim.

The objects of my invention are to give to one of the blades a combined curve and draw movement with better leverage, to simplify the general construction, strengthen and steady the parts, and give to the movable blade a more secure and stable bearing.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a view of my shears open. Fig. 2 is a view of the same closed. Fig. 3 is a view of the other side of the shears.

A is one handle, having formed or connected with it the blade B, which may or may not be in the shape of the usual finger.

C is the other handle, the head of which is halved upon the upper end of handle A, as shown in Fig. 3, and is pivoted thereto by the bolt *c*, the nut *c'* of which may be guarded and held, as usual, by the pawl and ratchet c^2.

D is the movable blade. This is pivoted to handle A by a pivot-pin E, passing through one corner of its foot, as shown in Figs. 1 and 2. This pin may be a simple screw passing through the blade-foot and seated in a socket in the handle. The foot of blade D has an elongated slot *d*, which is fitted at its upper end over the head of the pivot-bolt *c*, and at its lower end it receives the operating pin or stud F, which passes freely through the slot *d* and is seated firmly and fixedly in the handle C. This pin or stud may be a simple screw. The slot *d* at its upper portion is curved to play about the bolt *c*; but its lower portion, which plays on pin or stud F, is straight.

G is the controlling-spring between the two handles. The open position is shown in Fig. 1. In this position the blade D is so drawn that the lower end of its slot *d* is raised up to the pin or stud F, while its upper end extends beyond bolt *c*. Now when the handles are pressed together, the pin or stud F, moving inwardly, travels in slot *d*, and thereby turns the blade D about its pivot-pin E, and at the same time draws it down so that its slot turns upon and also moves down on bolt *c* until the upper end of the slot reaches the bolt *c*. This position is shown in Fig. 2, and to reach it the blade D has had a combined curve and draw motion, which is the most effective one. This construction is further advantageous in that the pin or stud F, being a simple fixed one, is not liable to work loose, as is the case with a movable pin or bolt, and said pin or stud is simple in construction and readily placed. The whole movable blade D is also more stable and secure, having a great and firm bearing on the handle A, so that it is not liable to twist nor get out of true.

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

In pruning-shears, the combination of the handle with its finger-blade, the opposing handle, the bolt pivoting said handles together, the movable blade having the elongated slot in its foot, fitting and playing over the bolt joining the two handles, the pivot-pin connecting the foot of the blade with the first handle, and the pin or stud fixed in the second handle and passing freely through the slot of the movable blade, substantially as herein described.

In witness whereof I have hereunto set my hand.

ROBERT HENRY DIXON.

Witnesses:
W. S. DIXON,
FRED. L. HAVEN.