

D. Campbell.

Fruit Gatherer.

No 80,595.

Patented Aug. 4, 1868.

Fig. 1.

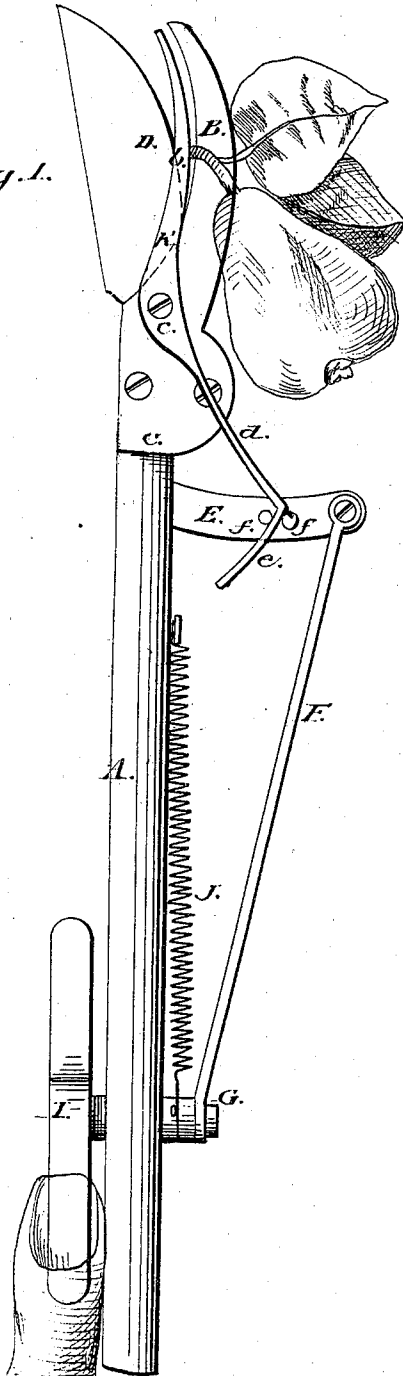
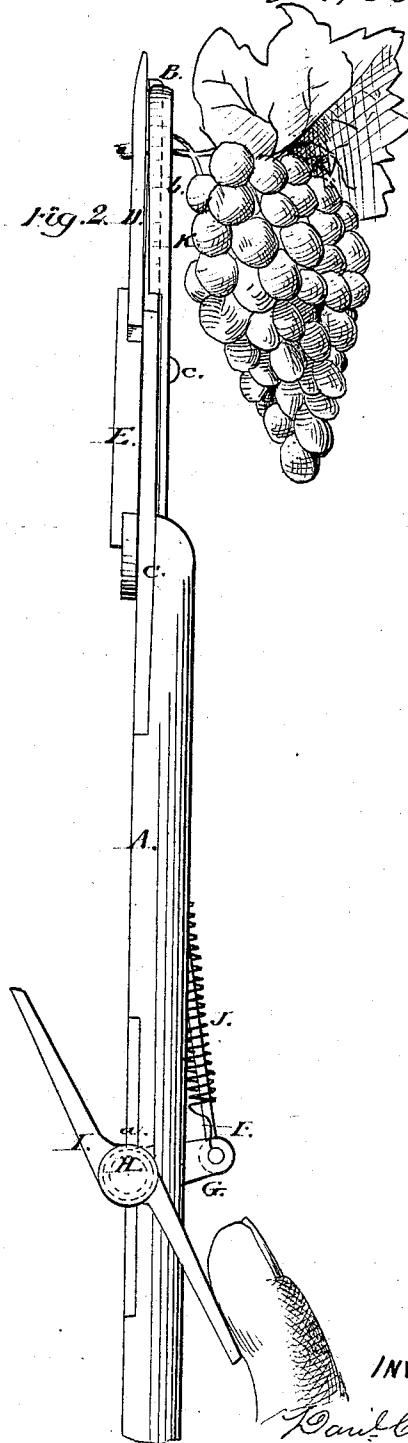


Fig. 2.



WITNESSES:

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United States Patent Office.

DANIEL CAMPBELL, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO HENRY SEYMOUR AND ROBERT H. SEYMOUR, OF NEW YORK CITY.

Letters Patent No. 80,595, dated August 4, 1868.

IMPROVEMENT IN PRUNING-SHEARS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, DANIEL CAMPBELL, of Elizabeth, in the county of Union, and State of New Jersey, have invented a new and useful Improvement in Pruning-Shears; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention.

Figure 2 is an edge view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in pruning-shears, whereby the latter, when required, are rendered available as fruit-pickers; the construction of the implement being such that the picking-attachment will not interfere in the least with the pruning or cutting-mechanism.

In the accompanying sheet of drawings—

A represents the handle of the device, which is of wood, and of any desirable length, and B is a stationary blade, formed with a tang or shank, C, which is screwed, bolted, or otherwise secured to the outer end of the handle A.

The blade B is of hook or curve-form, the concave edge being the face of the blade.

D is the movable blade of the shears, arranged to operate with a drawing cut, or to work on a fixed pin or fulcrum.

The cutting-edge of the blade D is of convex form longitudinally, and corresponds in form inversely with the face-edge of the fixed blade B, (see fig. 1.)

The blade D is provided with a curved shank, E, which is connected by a rod, F, with a crank, G, on one end of a small shaft, H, the bearing, *a*, of which is attached to the handle A, said shaft having a cross-arm, I, secured to its opposite end, by which the shaft H is turned.

J is a spiral spring, one end of which is attached to the handle A, and the other end to the crank G.

This spring has a tendency to keep the blade D open or cut from the fixed blade B, the former being drawn or moved toward B by turning the cross-arm I.

This arrangement or means for operating the movable jaw C is extremely simple and efficient, and admits of the implement being constructed at a small cost.

K represents what may be termed a holder, which is constructed of a piece of steel, at least that would be the preferable material.

This holder has its outer part, *b*, curved to correspond to the concave or face of the fixed blade B, and said holder is pivoted to the inner part of the blade B, as shown at *c*.

The inner portion of the holder is nearly straight, as shown at *d*, and the remaining part, *a*, is bent nearly at right angles with *d*, as shown clearly in fig. 1.

The inner portion of the finger is fitted between two pins, *f f*, attached to the shank E of the blade D.

By means of this connection, formed between the holder and the shank of the movable blade, the former is operated from the latter, the outer part, *b*, of the holder being made to move out from the fixed blade B, a short time after D moves outward therefrom, and the part *b* of the holder being made to move toward B simultaneously with the movement of D thereto.

The holder K is constructed in such a manner that its outer part, *b*, will lap over the face of B, and come in contact with the same before the whole length of the cutting-edge of D has passed the face of B, and hence it will be seen that, in cutting a fruit-stem from a branch, the holder K will clamp the stem and hold it firmly after being severed, the holder and fixed blade B serving as a clamp for effecting this object.

Thus it will be seen that by a very simple attachment, I combine a pruning-shears with a fruit-picker, and obtain an implement which will operate equally as well in either capacity as an implement made specially for either of the above-named purposes.

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

The holder K, in combination with the movable blade D, and fixed blade B, of a pair of pruning-shears, when said holder is applied or arranged so as to be operated automatically from the movable blade D, substantially as and for the purpose set forth.

I further claim, operating the movable jaw D through the medium of the cross-arm I attached to the shaft H, which is provided with the crank G, to which the spring J and rod F are attached, all arranged substantially as shown and described.

The above specification of my invention signed by me, this second day of July, 1868.

DANIEL CAMPBELL.

Witnesses:

JAMES M. HADDEN,
STANLEY G. MASON.