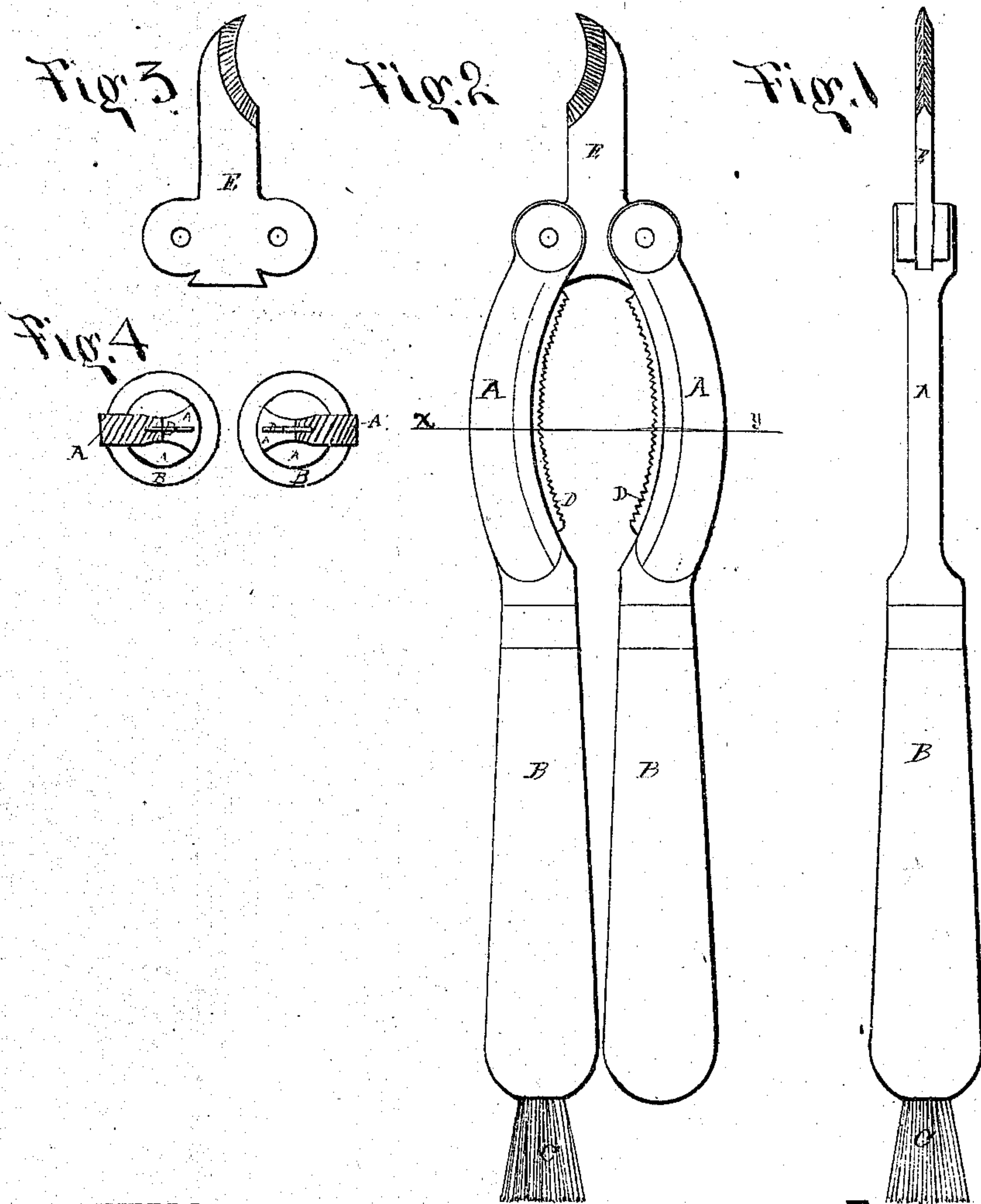


J. T. Haviland,

Cork Screw.

No. 104,453

Patented June 21, 1870.



Witnesses:

Edgar V. Shaw
E. W. Smith

Inventor:

John T. Haviland

United States Patent Office.

JOHN T. HAVILAND, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 104,453, dated June 21, 1870.

IMPROVED INSTRUMENT FOR REMOVING TWINE AND WIRE FROM BOTTLES.

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, JOHN T. HAVILAND, of the city and county of San Francisco, State of California, have invented an Instrument for Removing Wire and Twine from Bottles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters marked thereon.

This invention has for its object the production of an improved instrument for cutting the wires or twine by which corks are secured in champagne and other bottles, and consists in certain details of construction, as will be fully described hereinafter.

In the drawing—

Figures 1 and 2 are elevations of an instrument embodying my improvements.

Figure 3 is an elevation of the pointed blade.

Figure 4, a transverse section through the curved arms and cutting-blades, on the line $x y$.

Like letters refer to like parts.

To enable others skilled in the art or science to which it most nearly appertains to make and use my invention, I will proceed to describe its construction and operation.

A are the curved arms, provided with handles B.

C is the brush, and

D, the cutting-blades, each arm being hinged to the blade E.

The blades D and E have serrated edges, but may be constructed with smooth beveled edges, if preferred. The blade E may also be fixed to or form a part of one of the curved arms, or the instrument may be made with only one of the blades D.

It will be seen by reference to figs. 2 and 4, that the inner corners of the curved arms are beveled off toward the cutting-edges.

If desired, the curved arms A may be connected together by a single or double hinge without the pointed blade E.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

1. A wire-cutter, consisting of curved arms A, with handles B and blades D, when the parts are constructed and arranged as described, for the purpose set forth.

2. In combination with the above, the plate E, with serrated edged blade, as described, for the purpose set forth.

In testimony whereof I have hereunto set my hand and seal.

JOHN T. HAVILAND. [L. S.]

Witnesses:

C. W. M. SMITH,

H. G. TIBBEY.