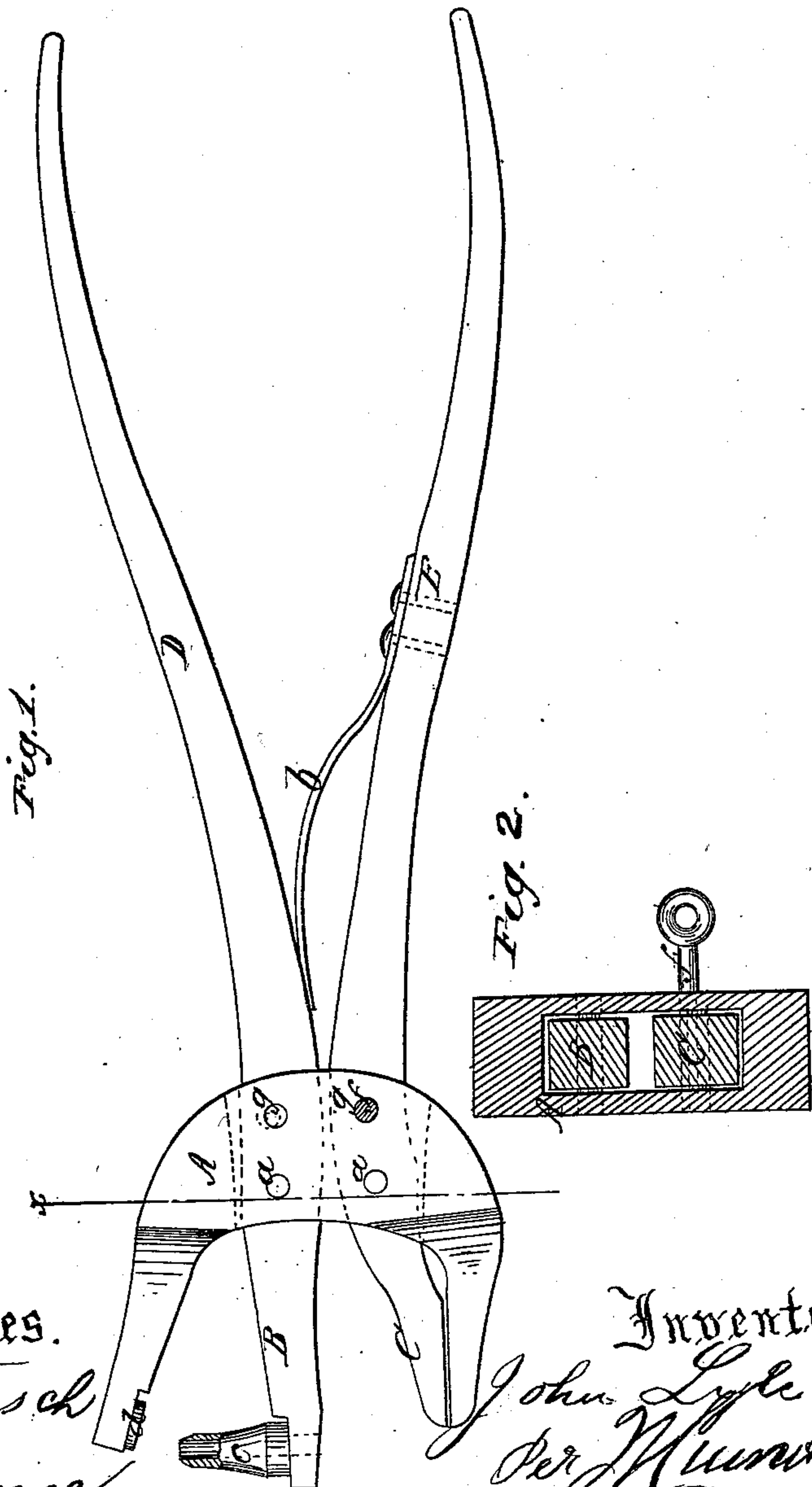


*J. Lyle,*

*Punch,*

*N<sup>o</sup> 64,121.*

*Patented Apr. 23, 1867.*



Witnesses.  
*Thos Tusch*  
*J. A. Service.*

Inventor.  
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# United States Patent Office.

JOHN LYLE, OF NEWARK, NEW JERSEY.

*Letters Patent No. 64,121, dated April 23, 1867.*

## IMPROVED COMBINATION TOOL.

*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 LYLE, of Newark, in the county of Essex, and State of New Jersey, have invented a new and improved Combination Tool; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those 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 represents a side elevation of this invention.

Figure 2 is a transverse section of the same, the line  $x x$ , fig. 2, indicating the plane of section.

Similar letters of reference indicate corresponding parts.

This invention consists in a tool provided with a u-shaped jaw, which forms the bearings for the fulcrum-pins of two movable jaws, which, in combination with the ends of the u-shaped jaw, form two tools of a different nature, such as plyers on one and a punch on the other side, or a punch on one and an eyelet-fastener on the opposite side; and a tool is thus obtained which is cheap and of great convenience. A suitable stop, which passes through holes in the u-shaped jaw and in the movable jaw, serves to throw either of said movable jaws out of work.

A represents a u-shaped jaw, which is made of steel or any other suitable material, and which forms the bearings for the pivots  $a$  of the movable jaws B C. From these jaws extend the handles D E and a spring,  $b$ , which is riveted to one of these handles, serves to force these handles apart, the same as in an ordinary hand-punch or other tool of a similar nature. One of the jaws B is provided with a punch,  $c$ , which, in combination with an anvil,  $d$ , secured in one end of the u-shaped jaw, forms a hand-punch, while the other jaw, C, in combination with the second end of the u-shaped jaw, forms a pair of nippers or plyers; but it is obvious that the form or construction of the jaws may be changed in many different ways, and tools for different purposes may be combined in the same u-shaped jaw.

If one of the tools is to be used, the other must be thrown out of work. This object is accomplished by means of a stop,  $f$ , which passes through holes  $g$  in the u-shaped jaw and through corresponding holes in the movable jaws, so that by means of this stop either of said movable jaws can be locked and the other jaw can be used to the best advantage.

By this arrangement a combination tool is obtained which can be made cheap, and which performs the same function as two ordinary tools.

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

1. The u-shaped jaw A in combination with two movable jaws B C and handles D E, constructed and operating substantially as and for the purpose described.
2. The stop  $f$  in combination with the u-shaped jaw A and movable jaws B C, constructed and operating substantially as and for the purpose set forth.

JOHN LYLE.

Witnesses:

JOHN POST,  
ROBERT LANG.