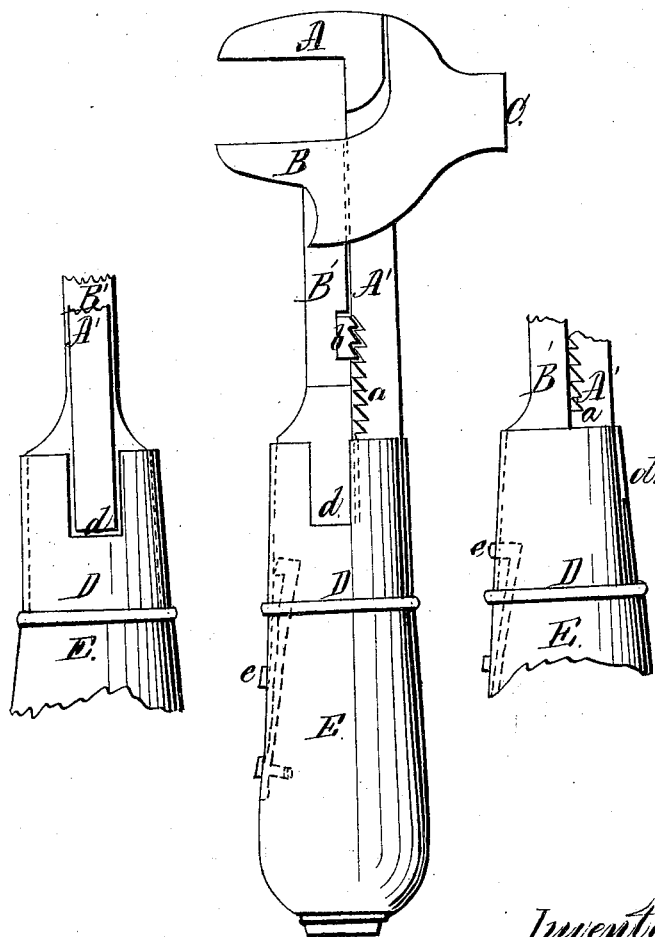


J. L. Crist,

Wrench.

N^o 55,066.

Patented May 29, 1866.



Witnesses:
Theodore Lang
Bro. Johnson

Inventor:
John L. Crist
by his Attorney
S. S. Fahnestock

UNITED STATES PATENT OFFICE.

JOHN L. CRIST, OF HARRISBURG, PENNSYLVANIA.

IMPROVEMENT IN SCREW-WRENCHES.

Specification forming part of Letters Patent No. 55,066, dated May 29, 1866.

To all whom it may concern:

Be it known that I, JOHN L. CRIST, of the city of Harrisburg, county of Dauphin, in the State of Pennsylvania, have invented a new and Improved Hand-Wrench; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, like letters indicating like parts in the several figures.

The nature of my invention consists in providing a ready mode of adjusting the two jaws of the wrench and securing the same in place.

To enable others skilled in the art to make and use my invention, I will proceed to describe its operation and construction.

A and B represent the two jaws of the wrench, each being attached to their respective staffs A' and B', which lie alongside of each other, and each having engaging teeth *a* and *b*. The lower jaw in my wrench has the hammer part *c* attached to it. Through this slides A', and it forms a bearing for the same. The rest or lower part of A' bears against B'.

D is a ferrule at top of handle E, and which slides around on it. This ferrule has a slot, *d*, cut in its top sufficiently large for lower end of A' to work through. A spring-stop, *e*, on one side of handle enters a hole in ferrule op-

posite the slot, holding the ferrule in proper and fixed position when the jaw A is to be adjusted.

The operation is as follows: If the jaws A and B are to be closed or opened, press on spring-stop *e* and revolve ferrule so the slot in it will come opposite the rear side of A', where it will be held by the stop entering a suitable hole. A can then be taken hold of, lower end of A' raised out of ferrule through its slot, teeth of A' and B' be disengaged, and A raised or lowered, and the teeth be brought together again. Pressing then on spring-stop the ferrule can be turned so as to cover completely lower end of A', serving as a detent or lock to hold it in secure contact with B'.

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

1. The combination of A A' and B B', operating conjointly in the manner described.
2. The slotted rotating ferrule D, serving also as a lock for sliding jaw A, and operating in the manner shown and described.

JOHN L. CRIST.

Witnesses:

M. S. BOWER,
HENRY GILL.