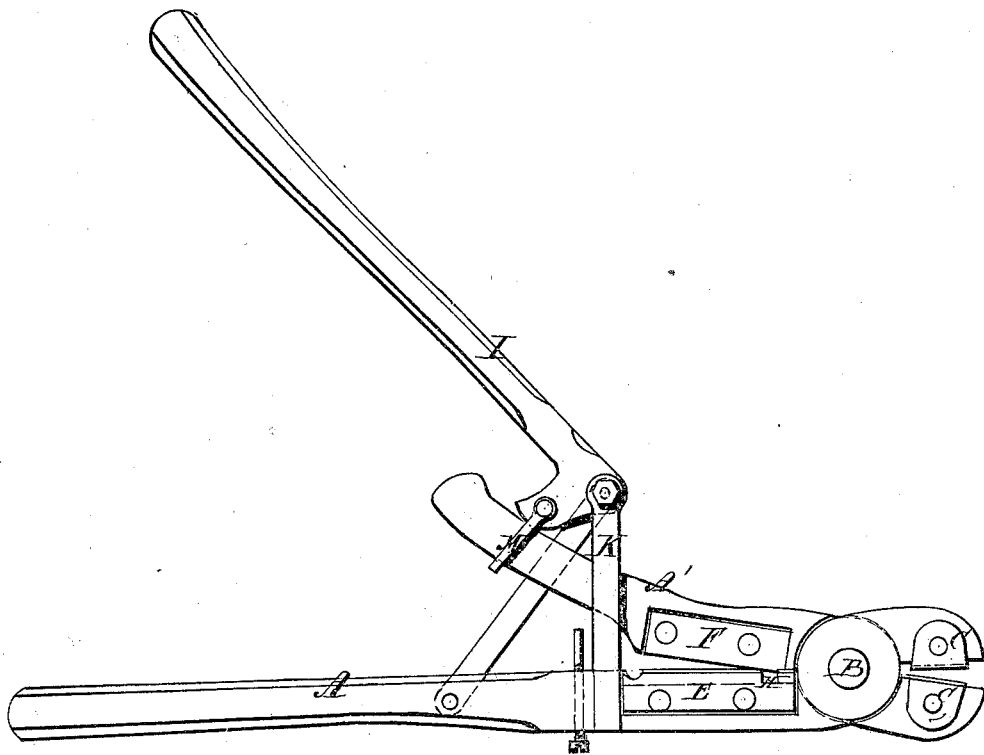


I. DU BOIS.

DEVICE FOR CUTTING AND SHEARING METALS.

No. 109,192.

Patented Nov. 15, 1870.



Witnesses:

*S. S. Mabey*  
*Alex. L. Roberts*

Inventor:

*I. Du Bois*  
PER *Wm. L.*  
Attorneys.

# United States Patent Office.

ISAAC DUBOIS, OF BOONESBOROUGH, IOWA.

Letters Patent No. 109,192, dated November 15, 1870.

## IMPROVEMENT IN DEVICES FOR CUTTING AND SHEARING METALS.

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, ISAAC DUBOIS, of Boonesborough, in the county of Boone and State of Iowa, have invented a new and improved Bolt-Cutter and 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 drawing forming part of this specification.

My invention relates to and consists in an improved compound cutting and shearing tool, for blacksmiths' use.

The drawing represents a side elevation of my improved bolt-cutter and shears.

A and A' are two handles or levers pivoted together at B, in the ordinary manner of shear-cutting tools.

They carry a pair of bolt-cutting bits or knives, C, at the outer ends, and behind the pivot B another pair of long shearing-cutters or plates, E F, which are designed to be used either for cutting bolts or shearing off strips of metal.

To adapt them for the reception of the bolts as near the pivot-joint as possible, and also to make room for the nut and admit the cutting-blade F to fit down snugly on the top of the nut, a notch, H, is made in

the plate or knife E, against the bottom of which the side of the nut rests, while the edge of the other cutter, F, is acting against the bolt.

To increase the leverage a cam-lever, I, is pivoted to the stud K, projecting from the long arm A, and arranged to act on the free end of the arm A', which is made shorter than the other, and the cam-shaped end L of the lever I is connected to the end of A' by a yoke, M, which draws the cutters apart when the levers or arms A I are moved away from each other.

The levers A I may be made of any suitable material.

Having thus described my invention.

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

The compound tool, above described, consisting of handles A A' pivoted at B, bolt-cutters C C, shearing-plates E F, of which the lower is notched at H, cam-lever I, stud K, and yoke M, all constructed and fitted together, as set forth, to form an improved article of manufacture.

ISAAC DUBOIS.

Witnesses:

M. A. SEAMAN,  
W. D. TEMPLIN.