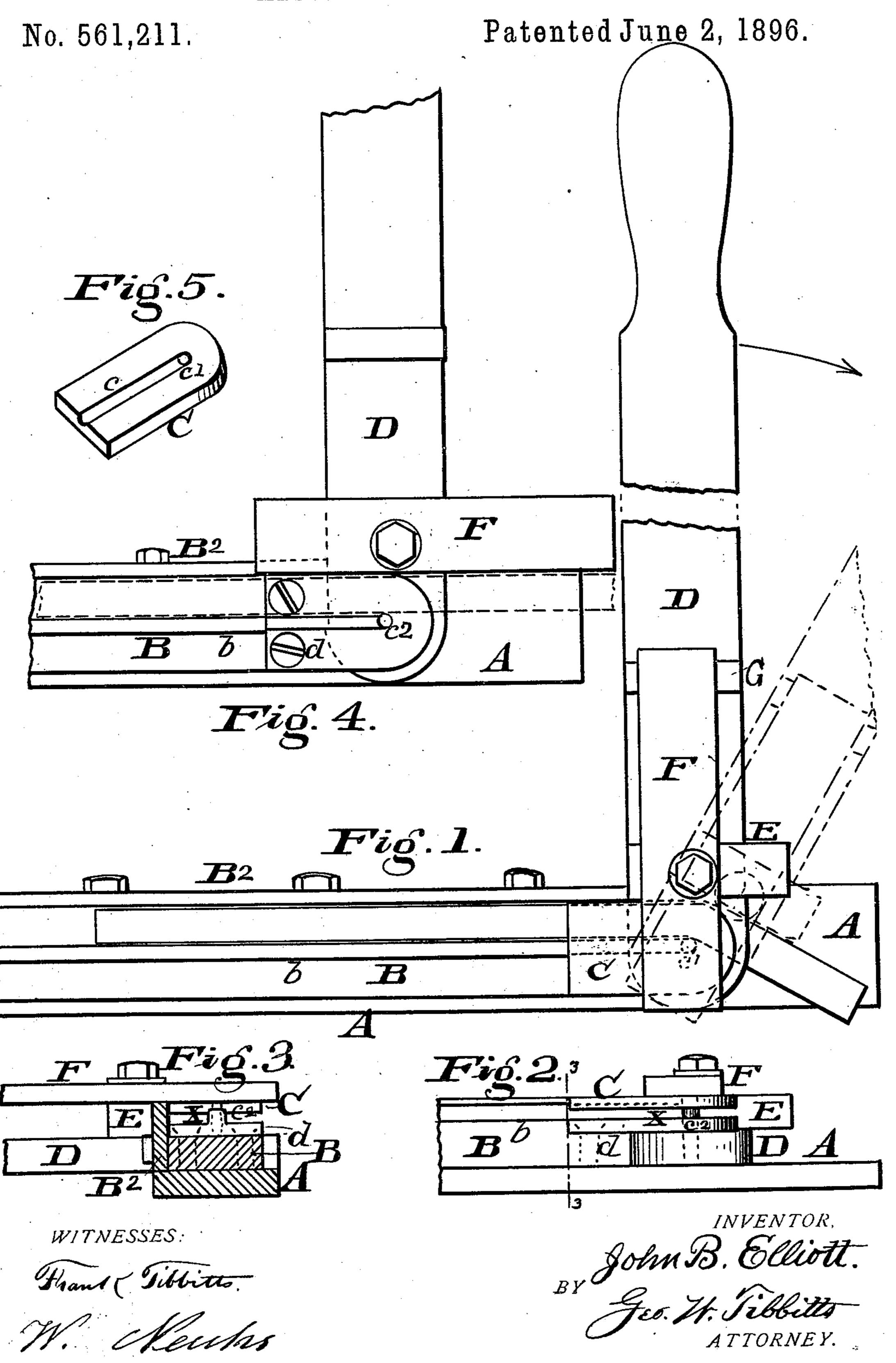
J. B. ELLIOTT. METAL BENDING MACHINE.



United States Patent Office.

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METAL-BENDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 561,211, dated June 2, 1896.

Application filed February 27, 1896. Serial No. 581,089. (No model.)

To all whom it may concern:

Be it known that I, John Berton Elliott, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Metal-Bending Machines, of which the following is a specification.

This invention relates to metal-bending; no and it consists in the peculiar construction and combination of parts comprising a hand-operated tool or implement, substantially as hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of the machine in working order with a bar of metal in place, the dotted lines showing the movement of the lever in the act of bending the bar. Fig. 2 is a side view of the bending-joint of the machine. Fig. 3 is a vertical section of the same. Fig. 4 is a top or plan view of the machine open, the straight dotted lines showing the bed or holder for the bar that is to be bent. Fig. 5 is a view of a removable cap-plate which lies over the bending-joint seen at C in Figs. 1, 2, and 3.

A is a base or bed plate, which supports all

of the working parts of the device.

B is a holder firmly secured to said base, 30 having a longitudinal rib b on its upper surface.

B² is a side plate bolted to the side of said holder, which, together with the rib b, forms a groove in which the bar or rod to be bent is laid, as seen in dotted lines in Fig. 1.

D is a bending-lever pivoted to the base A

at the end of said holder B.

d is a plate bolted in a recess in the end of holder and lapping over the pivoted end of the lever D, having a rounded end, and is an extension of the top surface of the holder over the joint of lever D.

C is a cap-plate of the same size and form as the plate d. It has a longitudinal groove c, which lies over the rib on said plate d, and has a hole c'. This plate lies over the plate

d and its hole c' over a center pin c^2 in the joint of the lever D.

E is a block firmly secured to the lever D, close to the rounded end of the plate C, and 50 forms the bearing-surface against the bar or rod to be bent, and forces the bar around the center pin c^2 as the lever D is moved around in the direction shown by the arrow and by the dotted lines.

Fis a short clamping-lever pivoted onto the block E, which is provided for holding the plate C down during the operation of bending the bar, as seen in Fig. 4. The long end of said lever F is supported on a block G on 60 the bar in Fig. 4.

The manner of working this device is as follows: The levers D and F being in the position seen in Fig. 4 and the plate C removed,

now the bar to be bent is laid in the position 65 shown by the dotted lines. Then the plate C is put in place and the lever F turned parallel with lever D. The bar thus occupies the space x between the two plates d and C. (Seen in Figs. 2 and 3.) Now, by carrying 70 the lever D around, the bar may be neatly and easily bent to any degree of curvature

The machine may be held by clamping the base A in a bench-vise or fastened directly 7

base A in a bench-vise or fastened directly 75 to the bench.

Having described my invention, I claim—

A metal-bending machine consisting of the base A, holder B secured to said base, a roundend extension-plate d attached to the holder 80 B, a removable round-end plate C, lying over plate d and the center pin c^2 , the lever D pivoted to the base A under the extension-plate d, block E on the lever D, and the lever F pivoted onto the block E, all constructed and 85 adapted to operate substantially as and for the purpose set forth.

JOHN BERTON ELLIOTT.

Witnesses:
GEO. W. TIBBITTS,
LEWIS W. FORD.