

(No Model.)

E. E. HEACOCK.
COMBINATION TOOL.

No. 404,001.

Patented May 28, 1889.

Fig. 1.

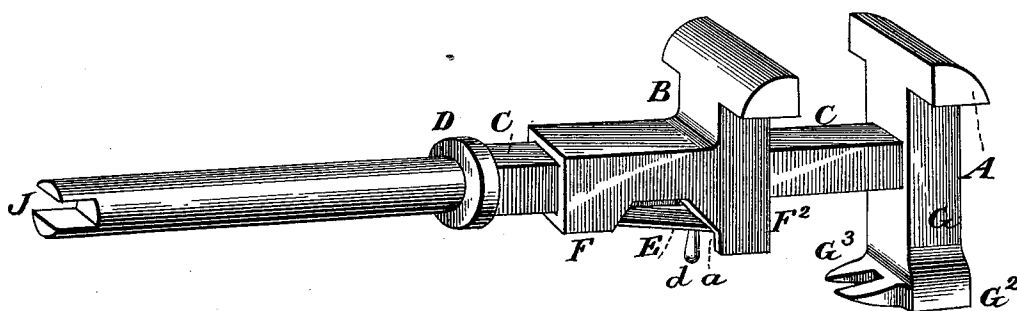
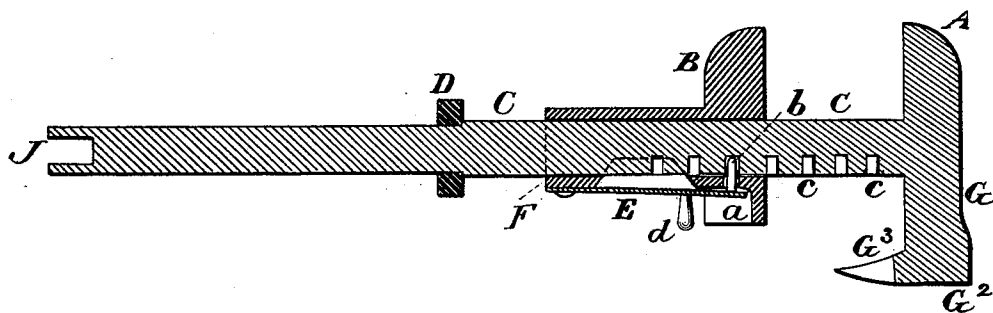


Fig. 2.



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UNITED STATES PATENT OFFICE.

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COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 404,001, dated May 28, 1889.

Application filed January 4, 1889. Serial No. 295,449. (No model.)

To all whom it may concern:

Be it known that I, ELMER E. HEACOCK, a citizen of the United States, residing at Straun, in the county of Coffey and State of Kansas, have invented certain new and useful Improvements in Combination-Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in combination-tools; and it has for its object to generally improve upon the construction and to render more serviceable in operation this class of devices.

The further and immediate object of the invention is to provide a tool of this class which shall embrace within a single element a wrench, a hammer, a tack or nail claw, and a tube-wrench.

The tool is simple and inexpensive in construction and both durable and efficient in operation.

In the accompanying drawings, which form a part of this specification, I have illustrated a tool constructed in accordance with my invention.

In said drawings, Figure 1 is a perspective view of a tool constructed in accordance with my invention. Fig. 2 is a central longitudinal section of the same.

Reference being had to the details of the drawings by letter, A represents the stationary head or jaw of the wrench, and B the movable jaw sliding upon the bar C.

D is a lug or shoulder upon the bar C, which serves to limit the movement of the movable jaw B.

E is a spring having one of its ends secured to the lower face of the downwardly-projecting portion F of the movable jaw B, the free end of said spring being adapted to move vertically in the recess *a*, formed in the lower face of the extension F². The free end of the spring E is provided with a pin or projection,

b, adapted to engage the holes *c*, formed within the lower face of the bar C. A suitable projection or handle, *d*, is provided upon the outer face of the spring, whereby the spring may be raised, so as to disengage the pin upon its under face from its engagement with the holes in the bar C when it is desired to readjust the position of the movable jaw.

The fixed jaw A of the wrench is provided with an extension, G, the lower end of which extension is fashioned into a hammer-head, G², and tack or nail claw G³.

The outer end of the bar C, which serves as a handle for the wrench, hammer, and nail-claw described, is recessed, as shown at J, thus forming a convenient and serviceable tube-wrench.

The tube-wrench is intended for use in tightening or unscrewing screw-threaded cones or tubes—such, for instance, as the cone used upon fire-arms and the like. In use the hollowed or chambered portion of the wrench is fitted over the cone, as will be readily understood.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

The combination-tool herein described, the same consisting of a bar, C, a stationary head, A, attached at one end of the bar, the extended end of said head being fashioned into a wrench-jaw and its opposite end provided with a hammer-face and a tack or nail claw, a movable jaw, B, provided upon its lower face with extensions F and F², as described, the spring E, having one of its ends attached to the extension F and its free end provided with a pin to engage holes formed in the lower face of the bar C, the stop D upon the bar C, to limit the movement of the movable jaw, and the tube-wrench J, formed in the end of the bar C, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

ELMER E. HEACOCK.

Witnesses:

JOHN HANNMAN,
W. N. HOLT.