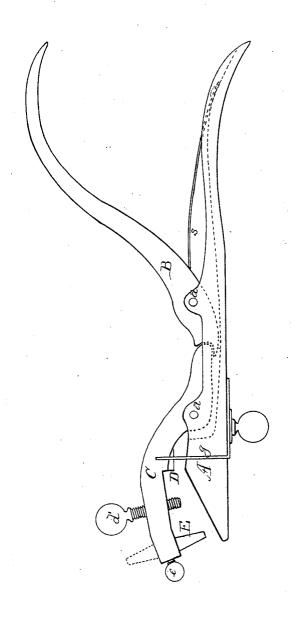
(No Model.)

W. G. AVERY.

SAW SET AND PUNCH.

No. 282,600.

Patented Aug. 7, 1883.



Witness.

O. S. Ollew.

Thull In E

Inventor, William GAvery,

By Geo. W. Tilbitts; Atty.

N. PETERS, Photo-Lithographer, Washington, D. C

UNITED STATES PATENT OFFICE.

WILLIAM G. AVERY, OF CLEVELAND, OHIO.

SAW-SET AND PUNCH.

SPECIFICATION forming part of Letters Patent No. 282,600, dated August 7, 1883.

Application filed October 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. AVERY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

In the accompanying drawing, the figure is a side elevation of my improved saw-set.

A is a jaw with a handle, which is the foundation or support for the working parts. It is chambered nearly its whole length, and provided with ears dd, in which are pivoted the handle-lever B and the gripping-jaw C. The lever B at its inner end engages with the inner end of the gripping-jaw. A spring, s, secured to handle A, operates to force the handles apart when released. The jaw A has a slanting face and forms the anvil upon which the saw-blade lies. Said jaw is also provided with an adjustable gage or guide, g, to adjust the tool to different sizes of saw-teeth. The movable or gripping jaw C is provided with a die, D, which grips the saw-tooth and bends it over the angle of the anvil A. Said jaw is also provided with a thumb-screw, d, for gaging the throw of the die. E is a hollow punch

adjustably fixed in said jaw C, to be used, when desired, for punching leather. The punch is held in place by a set-screw, e, so that the punch may be reversed in position, as seen in dotted 30 lines, when not required for use. This renders this tool useful for two purposes, the jaw A serving as the surface against which the punch works in cutting.

Having described my invention, I claim— 35 1. The improved saw-set, consisting of the anvil-jaw A, with its chambered handle, having ears d d and spring s, and provided with the adjustable gage g, the lever-handle B, and the movable gripping-jaw C, having die D and 40 gage thumb-screw d, constructed, combined, and operating substantially as specified.

2. The combination, with the jaw C, of the saw-set, and the cutting-punch E, adjustably fixed and held by the thumb-screw e, for punching leather in conjunction with the jaw A, substantially as specified.

WILLIAM G. AVERY.

Witnesses:

E. W. LAIRD, GEO. W. TIBBITTS.