

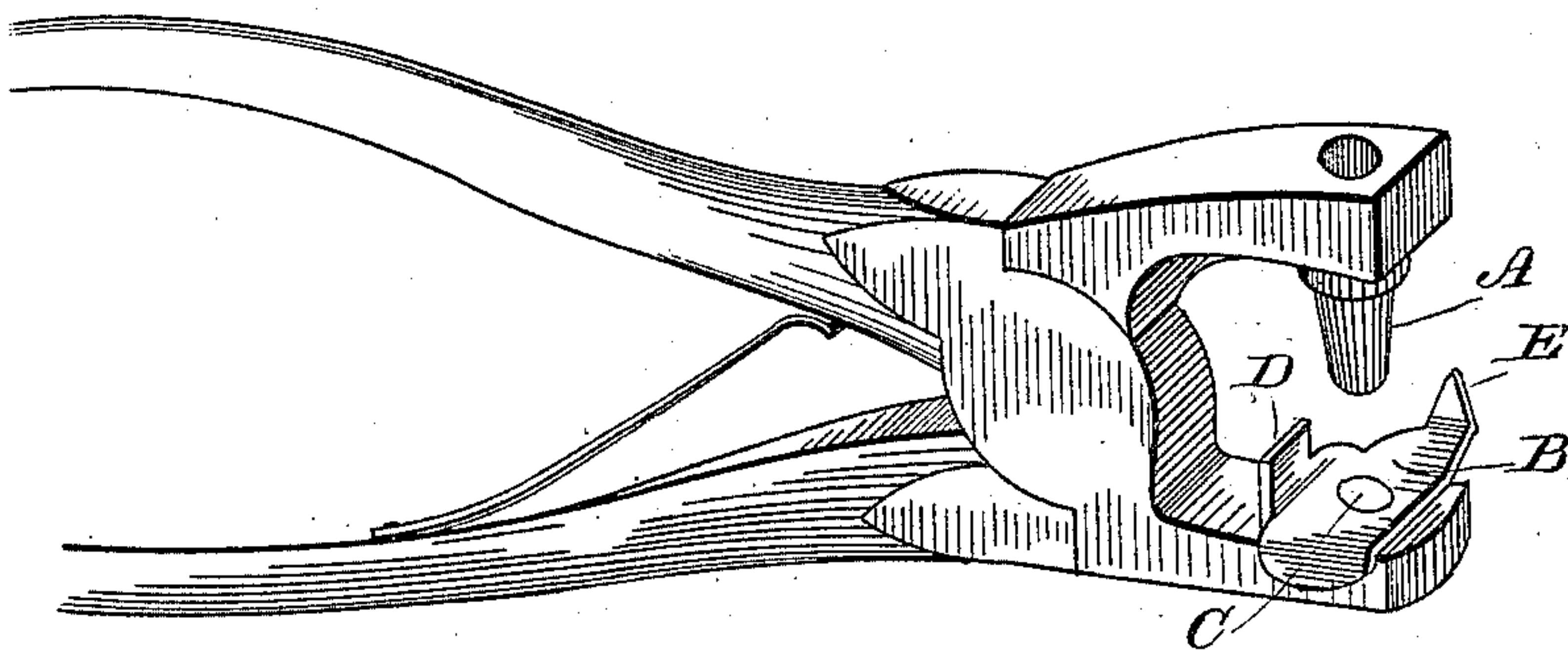
(No Model.)

I. M. DUNCKLEBURG.

PUNCH.

No. 299,210.

Patented May 27, 1884.



Witnesses  
S. S. Williamson  
W. J. Haviland

Inventor  
Isaac M. Dunckleburg  
By Smith & Hubbard  
Attys.

# UNITED STATES PATENT OFFICE.

ISAAC M. DUNCKLEBURG, OF ROCHESTER, NEW YORK, ASSIGNOR TO CHARLES K. JUDSON, OF SAME PLACE.

## PUNCH.

SPECIFICATION forming part of Letters Patent No. 299,210, dated May 27, 1884.

Application filed February 25, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC M. DUNCKLEBURG, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Punches; and I do hereby 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.

My invention relates to certain novel and useful improvements in punches for perforating paper, straw or paste board, textiles, leather, and other similar substances, and has for its object to provide a simple device by the use of which, in perforating any material, a uniform distance may be preserved not only between the holes and the edge of the material to be punched, but also the space between the holes will be uniform; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully and in detail explained, and then specifically designated by the claims.

In order that those skilled in the arts to which my invention appertains may more fully understand how to make and use my improvement, I will proceed to describe its construction and operation, referring by letter to the accompanying drawing, forming a part of this specification, which shows any ordinary cutting-punch constructed in accordance with my improvement, showing the spacing-gage for preserving the required distance from the holes to the edge of the material, and also the spacing-gage for preserving the uniform space between the holes.

A is any ordinary punch, and B is a plate, constructed of copper or other soft metal, and which I preferably attach to the lower jaw of the punch by means of a screw or rivet, C, running through the said jaw from the under side, or by any other suitable device; or the plate may be integrally cast with the jaw.

Upon its rear end the plate B is provided with a projection, D, which is turned up at right angles to the face of the plate. The distance from the projection D to the edge of the cutting-tool will be the distance from the perforation made by the cutting-tool to the edge of

the material. Upon one side of the plate B is another projection, E, of any desired length, whose end is also turned up at a right angle from the face of the plate B. This projection E forms the spacer by which the interval between each hole and the next is determined.

The operation of my invention is as follows: The position of the first hole to be punched in the material desired to be perforated having been determined, the edge of the material is placed against the projection D, and the first hole is then cut at the proper distance from the edge. The punch is then removed and the projection E inserted in the hole already made. By means of this the next perforation is made at the proper distance from the first, and by means of the edge-spacer D the proper distance from the edge of the material is preserved. By repetition of the operation just described a line of holes will be cut, correctly spaced, both from the edge of the material and from each other.

I am well aware that punches have heretofore been made provided with a device for preserving a uniform distance between the perforations, or a uniform distance between the edge of the material and the hole; but the gist of my invention consists in the broad idea of a spacing-plate adapted to be attached to any punch of the construction shown in the drawing, and provided both with an edge-spacer and a spacer for accurately determining the proper distance between the holes. By the use of a screw operating from the under side of the lower jaw of the punch as a means of attachment of the plate, several interchangeable plates may be provided, by the use of which different spacing of the perforations, both from the edge and from each other, may be accomplished.

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

1. In a punch, as described, the spacing-plate attached to one jaw thereof and provided with projections, as shown, whereby the holes cut by the punch may be accurately spaced, both from the edge of the material and from one another.

2. In a punch, an attachable spacing-plate



provided with two projections turned up at an angle from the face of the plate, in combination with the jaw of the punch, and means for attaching it thereto, substantially as set forth.

3. The combination, with a punch, of the plate B, having upward projections D and E, and attached to the jaw of the punch by the

10 rivet or screw C, substantially as described, and for the purpose set forth.

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

ISAAC M. DUNCKLEBURG.

Witnesses:

JOHN H. DAVIS,

DAVID N. SALISBURY.