

(No Model.)

Z. T. RAYNOR.
COPYING PAD FOR AUTOGRAPHIC COPYING.

No. 455,455.

Patented July 7, 1891.

Fig. 1.

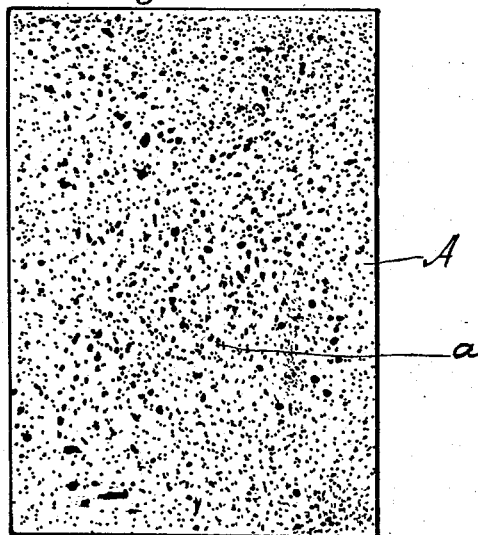


Fig. 2.



Witnesses
Vernon M. Dorsey
Jadie H. Gibson

Zebulon T. Raynor Inventor
By *D. Breed* Attorney

UNITED STATES PATENT OFFICE.

ZEBULON TEN RAYNOR, OF HORNELLVILLE, NEW YORK.

COPYING-PAD FOR AUTOGRAPHIC COPYING.

SPECIFICATION forming part of Letters Patent No. 455,455, dated July 7, 1891.

Application filed June 25, 1890. Renewal June 6, 1891. Serial No. 395,319. (No model.)

To all whom it may concern:

Be it known that I, ZEBULON TEN RAYNOR, a citizen of the United States, residing in Hornellsville, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Copying-Pads for Autographic Copying; 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 of reference marked thereon, which form a part of this specification.

My invention relates to pads which are used in those duplicating processes one of whose steps consists in perforating paper upon the lines which are desired to be blacked, and as such processes in their several steps form no part of my present invention they need no further description here.

Heretofore paper has been perforated by means of a stylus carrying in itself the means for perforations, or it has been perforated by laying it upon a roughened surface and passing a stylus over the desired portions thereof, by which the projections upon the pads are forced through the paper, thereby perforating it. Such pads as heretofore made have consisted generally of metallic plates, having the desired roughened surfaces formed by projections of the material thereof, and have had but a single side thereof so roughened.

My invention therefore consists in a suitable base, by preference consisting of papier-maché, and having secured to the opposite faces thereof, by means of glue, granular abrasants of different grades of fineness, as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a plan view of a pad constructed according to my invention, and Fig. 2 is a transverse section thereof.

The base A, of papier-maché, has secured on one side thereof, as *a*, by means of glue or other suitable cements, finely-pulverized quartz, while the opposite side *a'* thereof has sand secured thereto in a similar manner, the said sand being finer than the pulverized quartz of the first-named side. It will thus be noticed that one and the same pad is provided with two abrading-surfaces of different degrees of fineness, thereby permitting two grades of work to be turned out from the same pad.

It is evident that sand-paper of the proper grade may be secured to the pad instead of securing the sand or quartz directly thereto, and in Fig. 2 I have shown this construction at *b*. I thus construct a pad at a small cost, the abrading-surfaces of which may be readily removed and new ones substituted therefor by dissolving the glue holding the parts together.

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

A pad for autographic writing, composed of a base of papier-maché having abrasive paper of different grades of coarseness secured to its opposite sides by means of adhesive material, as described.

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

ZEBULON TEN RAYNOR.

Witnesses:

H. C. SAWYER,
EDWARD R. CRAIG.