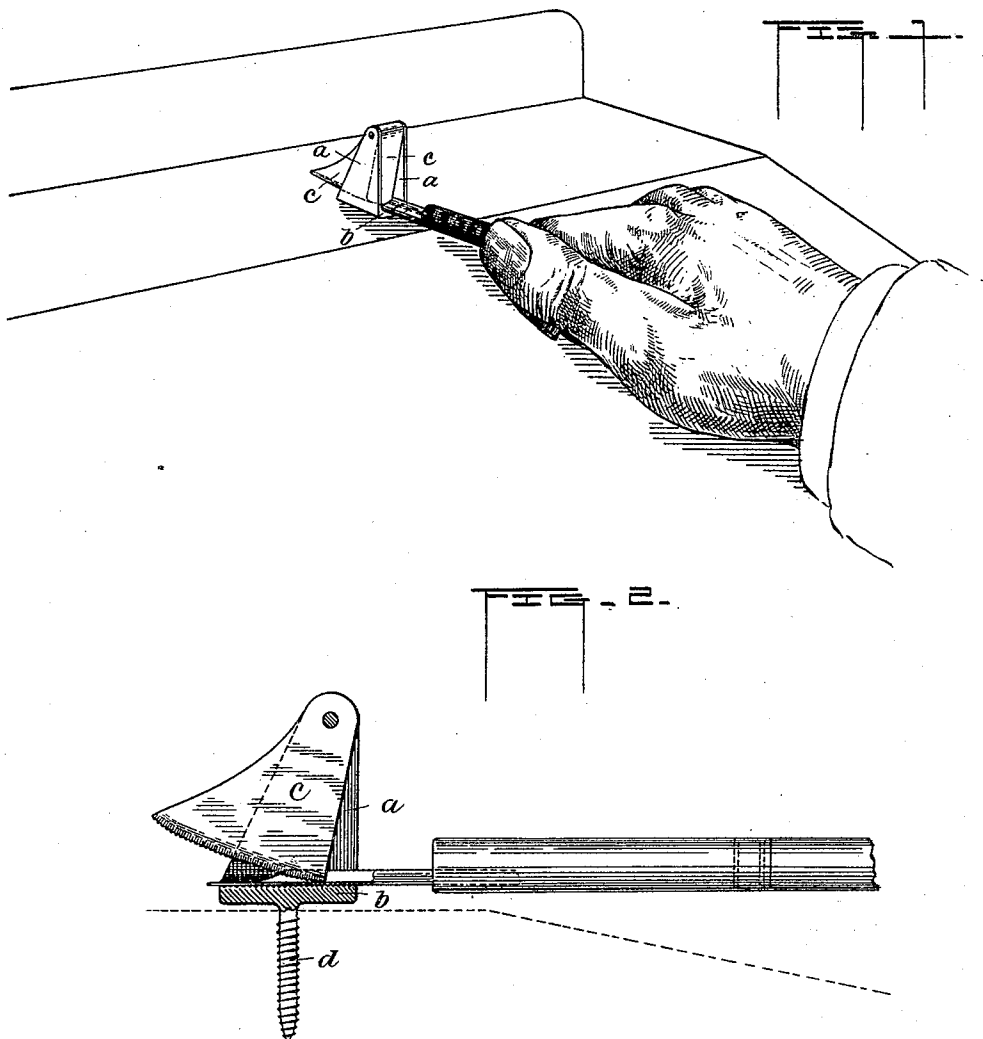


(No Model.)

H. E. GRANT.
PEN EXTRACTOR.

No. 470,296.

Patented Mar. 8, 1892.



WITNESSES

W. H. Conover
H. L. Gill

INVENTOR

Horace E. Grant
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UNITED STATES PATENT OFFICE.

HORACE E. GRANT, OF PITTSBURG, PENNSYLVANIA.

PEN-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 470,296, dated March 8, 1892.

Application filed January 13, 1890. Serial No. 336,747. (No model.)

To all whom it may concern:

Be it known that I, HORACE E. GRANT, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Pen-Extractors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of one form of my improvement. Fig. 2 is a vertical sectional view of the same.

Like letters of reference indicate like parts wherever they occur.

The object of my invention is to provide a simple and efficient device for extracting pens from penholders; and it consists of gripping-jaws, one or both of which are suitably pivoted, and, when desired, a securing attachment by means of which the extractor may be secured to a table, desk, stand, or other support.

I will now describe my invention, so that others skilled in the art may manufacture and use the same.

In the drawings, *a* represents a frame having a concave base-plate *b*, which may be roughened or corrugated on its upper surface. Pivoted to the upper portion of the frame is the swinging cam *c*, the lower convex face of which may also be roughened or provided with transverse corrugations. Secured to the bottom face of the plate *b* is a screw *d*, by means of which the extractor may be secured to a table, desk, or other support. In order to extract a pen from a penholder, it is only necessary to push the point of the pen between the plate *b* and the cam *c* and then pull on the penholder, when the cam will grip the

pen automatically against the base-plate *b* and retain the same. The purpose of the concave and convex gripping-surfaces is merely to conform to the shape of the pen; yet this form is essential in a pen-extractor, as if the hold is merely on the nibs they are apt to break off, leaving the body of the pen in the holder.

I am aware that hand-operated cams have been used for gripping the nibs of pen-points and enabling them to be extracted; but such extractors have not been automatic in their action, and by reason of the fact that they were provided with flat gripping-faces a liability existed of breaking off the pen, leaving its stump fixed in the holder. My device is automatic in its action, being forced back by the pen and gripping the same on the reverse movement.

Instead of the screw *d* any other suitable securing device may be employed.

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

In a pen-extractor, the combination, with the supporting-frame, of a pivoted cam and an opposite base of rounded contour to fit the pen, said cam being adapted to be moved back by the pen and to grip the same automatically, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 28th day of December, A. D. 1889.

HORACE E. GRANT.

Witnesses:

W. P. POTTER,
JNO. K. SMITH.