

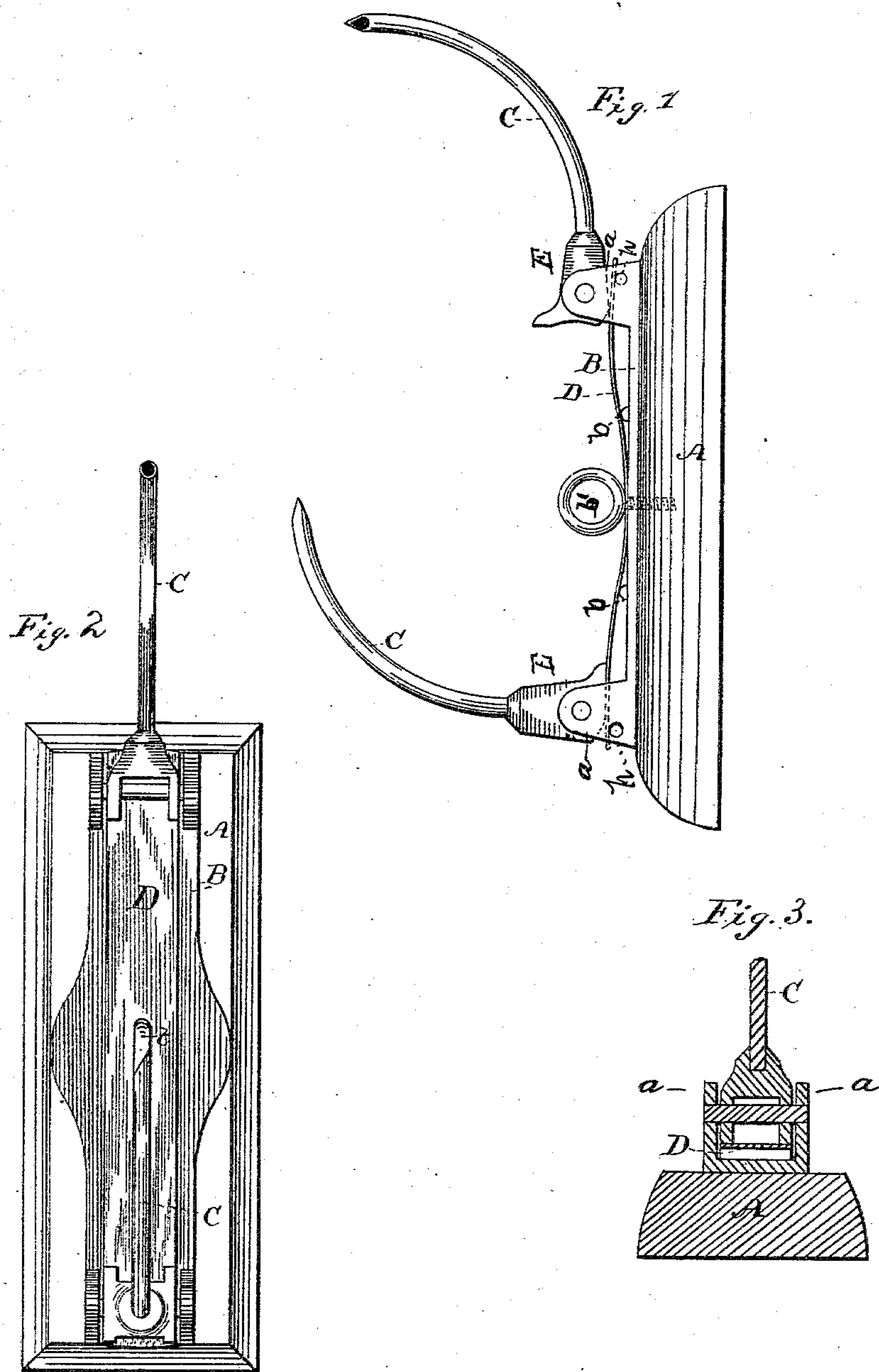
(No Model.)

F. SCHMITZ & J. MILLS.

PAPER FILE.

No. 283,667.

Patented Aug. 21, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANK SCHMITZ AND JOSEPH MILLS, OF CORNELL, ILLINOIS.

PAPER-FILE.

SPECIFICATION forming part of Letters Patent No. 283,667, dated August 21, 1883.

Application filed February 19, 1883. (No model.)

To all whom it may concern:

Be it known that we, FRANK SCHMITZ and JOS. MILLS, citizens of the United States of America, residing at Cornell, in the county of Livingston and State of Illinois, have invented certain new and useful Improvements in Paper-Files, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention pertains to an improvement in paper or letter files; and it consists in base-block A, plate B, having lugs *b* and ears *a*, tubular pointed hooks C C, secured in hook-post E, spring D, eyebolt and spring-adjuster
15 *b'*, and in the combination and arrangement of the parts, substantially as hereinafter more fully shown and described.

In the accompanying drawings, Figure 1 is a side view of our improved paper or letter
20 file, showing one of the hooks sprung back. Fig. 2 is a plan view thereof, and Fig. 3 is a detailed section taken through one of the hook-posts and spring.

In carrying out our invention we employ a
25 base-block, A, preferably oblong in shape. Upon this base is fastened a metallic plate, B, having cast integral therewith ears *a* at each end, and in these ears are pivoted the hook-posts E, wherein are rigidly secured the tubular curved hooks C C. The metallic plate B
30 is also provided with the lugs *b*, located at corresponding distances from the eyebolt and spring-adjuster *b'*, as shown. The hooks C being tubular, and having oblique or sharpened
35 points, the point of each hook, when the file is fastened, locates in the tubular recess of its corresponding hook, the purpose of which is to hold the papers secure against loss, and to admit the papers being shifted from one hook
40 to another.

The heel of each hook-post is slightly curved to admit its being readily and widely opened, and when the file has been filled with papers the hooks are then locked in position by means
45 of locking-pins thrust through orifices *h* in ears *a*, which precludes the accidental opening of the hooks by jarring or handling at any future time.

The flat plate-spring D, which projects beneath the hook-posts E, is secured at its center
50 to and upon the plate B by means of the eyebolt and spring-adjuster *b'*. This eyebolt is passed through the spring D and plate B and screwed into the base-block A, and as the eyebolt is screwed home the spring is forced against
55 the lugs *b*, and the ends of the spring are thrown up, and thus the elasticity of the spring is greatly increased, and by this means the spring may be adjusted from time to time to increase
60 its elasticity as the papers are gradually filed upon the hooks.

It will be observed that the base-block A not only serves to receive the shank of the spring-adjuster *b'*, which could not otherwise
65 be operated to project through the thin metallic plate B, but that it also serves to suitably broaden the base of the device, to prevent its being overturned by the weight of the filed letters.

In practice it frequently happens that the
70 hooks of such paper-files, when wholly loaded up and weighted with the files, are jarred or sprung apart, and the files are thus lost therefrom, which is owing to the constant strain to which the springs are subjected. This disadvantage it is the purpose of our invention to
75 overcome, and as suitable pins are inserted in orifices *h* the security of the hooks rigidly in position is thus assured.

We are aware of the patent of G. W. Billow
80 of January 14, 1873, No. 134,724, which we disclaim, wherein curved hooks are employed having pointed ends, which, being pivoted or hinged, may be readily sprung apart for reception of files, and then closed together, and these
85 hooks he employs in connection with a metallic plate and springs adjustable thereon; but he does not show a supporting-plate with ears
90 for pivoting the hooks thereto, cast integral with the plate, nor does he employ any locking device other than the flat spring, which, when weighted with the files, soon loses its elasticity, and thus permits the hooks to become disconnected and the files lost therefrom. It is the purpose of our invention to remedy
95 this imperfection.

Having thus fully described our invention,
what we claim, and desire to secure by Letters
Patent, is—

5 The combination of the base-block A, plate
B, having ears *a*, provided with locking-pins
h, and lugs *b*, spring D, eyebolt and spring-
adjuster *b'*, hook-posts E, and hooks C, sub-
stantially as shown, and for the purpose de-
scribed.

In testimony whereof we affix our signatures to
in presence of two witnesses.

FRANK SCHMITZ.
JOSEPH MILLS.

Witnesses:

T. A. SPRAGUE,
N. MYERS.