No. 800,641. PATENTED OCT. 3, 1905.

E. M. GOLDSMITH.

PAPER AND SIMILAR FILE.

APPLICATION FILED MAR. 6, 1905.

Fig. 1.

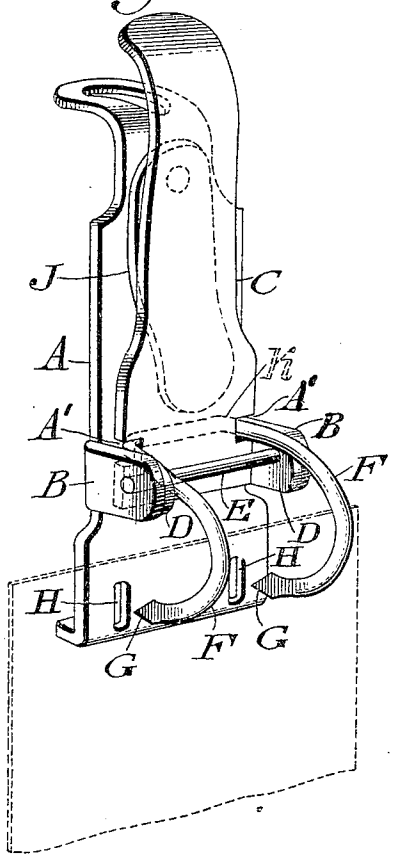


Fig. 2.

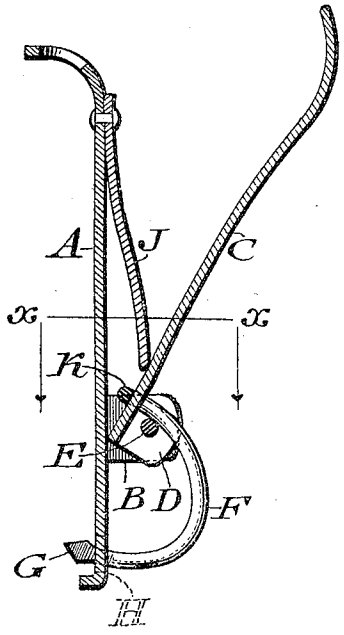


Fig. 4.

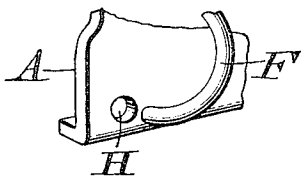
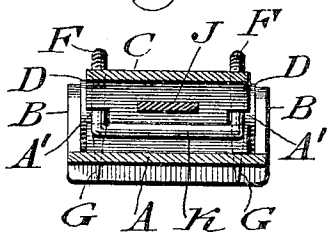


Fig. 3.



Witnesses

P. F. Nagle.

L. Douville.

Inventor

Edwin M. Goldsmith.

By Wilkerson & Fairbanks

Attorneys.

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDWIN M. GOLDSMITH, OF PHILADELPHIA, PENNSYLVANIA.

PAPER AND SIMILAR FILE.

No. 800,641. Specification of Letters Patent. Patented Oct. 3, 1905.

Application filed March 6, 1905. Serial No. 248,409.

To all whom it may concern:

Be it known that I, EDWIN M. GOLDSMITH, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Paper and Similar File, of which the following is a specification.

My invention consists of a paper or other file in which provision is made for simultaneously perforating or cutting the paper or material and impaling the same.

It also consists of details of construction, as will be hereinafter set forth.

Figure 1 represents a perspective view of a file embodying my invention. Fig. 2 represents a longitudinal section thereof. Fig. 3 represents a transverse section on line x x, Fig. 2. Fig. 4 represents a perspective view of a portion of a file, showing a form of impaling-pin that may be employed.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates the back plate of the device, and B designates ears on the sides thereof, the same in the present case being integral therewith.

C designates a lever which is provided on the sides thereof with ears D, which are placed in juxtaposition to the ears B, said ears D and B having openings therein to receive the pintle or rod E, thus forming the axis of said lever.

Connected with the lever, near the axial end thereof, are the impaling-pins F, which are curved in form and have their points sharpened or constituted as blades, as at G, so as to be capable of cutting the paper to which they are presented.

In order to assist in retaining the pins in position on the lever, the sides of the latter are formed with recesses A′, in which the adjacent portions of the pins are seated and by the walls of which said portions are embraced.

In the end portion of the plate A, adjacent to the pins F, are openings H, through which the points G are adapted to pass during their cutting action on the papers to be filed.

In order to exert pressure on the lever C, and consequently on the impaling-pins, I employ the spring J, which is secured to the plate A and bears against the lever, as most clearly shown in Fig. 2.

In order to provide a firm connection of the pins F with the lever C, said pins are joined by the cross-bar K, which is integral with the same and secured to the lever, the effect of which is evident.

The operation is as follows: The lever is pressed toward the plate A, whereby the pins F follow the motion of said lever, and the blades G emerge from the openings H and are removed from the plate A, thus opening the file, as shown in Fig. 1. The paper to be filed is now placed on the plate between the same and the blades G and over the openings H. The lever is then let go, when the pressure of the spring is exerted on the same, causing the pins to move toward the plate and forcing the blades G through the paper, the walls of the openings H acting as beds and means for stripping the paper from said plate and placing the paper fully on the pins, it being noticed that the paper is effectively cut through or perforated by the blades and simultaneously impaled on the pins, while being also prevented from dropping or escaping from the latter owing to the projection of the blades through the openings H, it being also evident that when a number of papers are impaled or filed the papers may be turned over the pins for access to either of the same without liability of disconnecting them from the device. It is also evident that when it is desired to remove any paper or all papers the file may be opened as in Fig. 1, thus uncovering the blades G, whereby the paper or papers may be stripped from the pins.

In the construction shown in Fig. 4 the device is the same as previously described excepting that I have dispensed with the pointed end of the pins and have made the openings in the plate to correspond, the effect of which is the same as previously explained.

Various changes may be made in the details of construction shown without departing from the general spirit of my invention, and I do not, therefore, desire to be limited in each case to the same.

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

1. In a file of the character stated, an impaling-pin having a cutting-blade on an end thereof and a back plate on which said pin is

pivotally mounted, said plate having therethrough an opening, through which said blade may pass.

2. In a file of the character stated, a plate, a lever mounted thereon, an impaling-pin connected with said lever and a cutting-blade on an end of said pin said plate having an opening therethrough, through which the point of said blade is adapted to fully pass.

3. In a file of the character stated, a plate, a lever mounted thereon, an impaling-pin connected with said lever, means for exerting pressure on said pin, and a cutting-blade on said pin said plate having an opening therethrough, through which the point of said blade is adapted to fully pass.

4. In a file of the character stated, a plate, a lever mounted thereon, an impaling-pin connected with said lever and a cutting-blade on said pin, said plate having an opening into which said blade is adapted to enter.

5. In a file of the character stated, a plate, a lever mounted thereon, impaling-pins carried by said lever, said plate having openings therethrough through which the ends of said pins are adapted to pass to the rear of said plate, and means for normally holding said pins in said openings.

6. In a file of the character stated, a plate, and an impaling-pin movably connected with said plate, said plate having an opening therethrough into which said pin is adapted to enter and through which the point of said pin is adapted to pass to the rear of said plate.

7. In a file of the character stated, a plate, a lever mounted thereon, an impaling-pin connected with said lever, said plate having an opening therethrough, into which the point of said pin is adapted to enter and pass through to the rear in such a manner as to simultaneously perforate paper, strip it from said plate and impale it on said pin.

8. In a file of the character stated, a lever, impaling-pins projecting from said lever and a cross-bar connecting said pins and secured to said lever.

EDWIN M. GOLDSMITH.

Witnesses:

WM. CANER WIEDERSEIM,

C. D. MCVAY.