June 28, 1927. 1,634,120

G. SCHRADE

INK ERASER

Filed Jan. 5, 1926

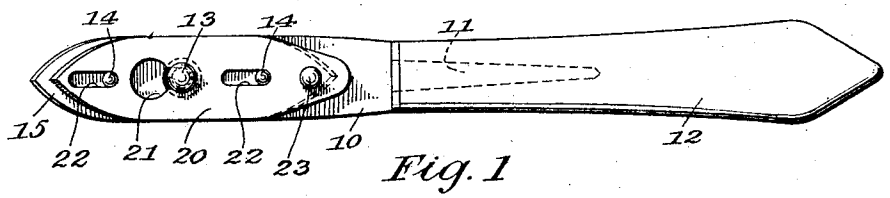


Fig. 1

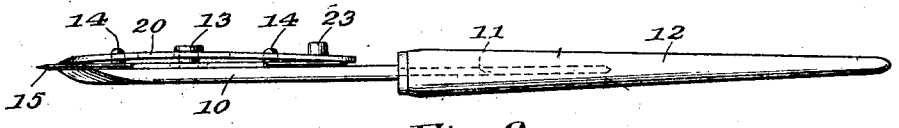


Fig. 2

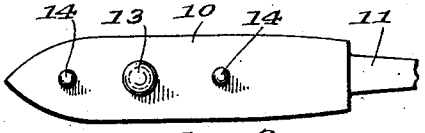


Fig. 3

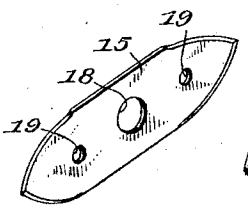


Fig. 4

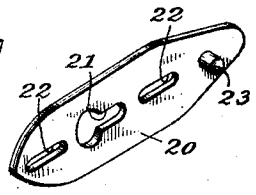


Fig. 5

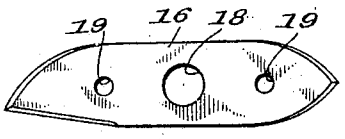


Fig. 6

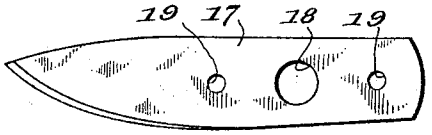


Fig. 7

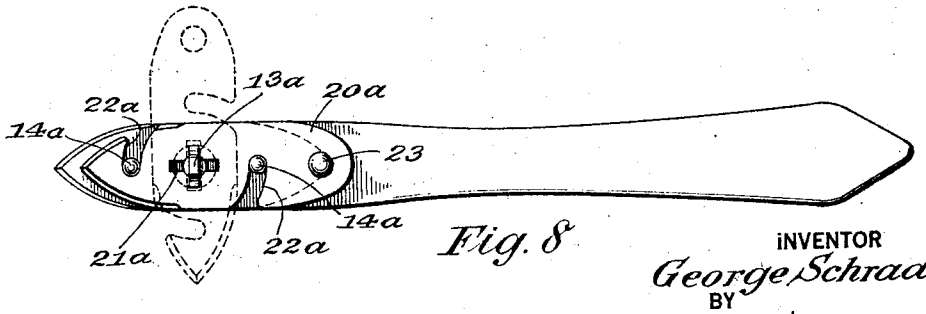


Fig. 8

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UNITED STATES PATENT OFFICE.

GEORGE SCHRADE, OF BRIDGEPORT, CONNECTICUT.

INK ERASER.

Application filed January 5, 1926. Serial No. 79,347.

This invention relates to ink erasers and more particularly to an eraser employing a removable and reversible erasing blade, having increased cutting surfaces and adapted to provide new-edged portions thereof in position for use, and further in employing a detachable clamping member for securing the said erasing blades in position on the holder or head.

The invention is further designed to include in addition to the several erasing edge portions a cutting edge which may be employed for cutting pencils, papers and the like, or if desired the blade may be shaped like a scalpel blade and used by surgeons.

The object of the invention is to provide a high class ink eraser of attractive design and construction having operatable clamping means whereby a double-ended elongated form of cutting blade may be removably attached, the opposite end portions of said cutting blade being reversible in the holder and each containing two cutting edges adapted to be projected from the forward end of the eraser in position for use.

It is a further object of the invention to form these blades inexpensively of very light stock and to make them both reversible end for end upon the eraser head or holder and likewise removable and interchangeable with similar new blades whereby the old blades may be discarded as the same become dull and replaced with new blades thus adapting the blades for sale in packages containing specified numbers, for use in the holders in somewhat the same manner as is done with some forms of safety razor blades.

With these and other objects in view the invention resides and consists in the construction and novel combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claim may be resorted to without departure from the spirit or sacrificing any of the advantages of the invention.

Similar characters of reference denote like or corresponding parts throughout the several figures of the accompanying drawings forming a part of this specification, and upon which,

Fig. 1 is a side elevation of an eraser embodying my invention;

Fig. 2 is a top edge view of the same;

Fig. 3 is a side view partially broken away of the main body portion or head member of the eraser;

Fig. 4 is a perspective view of my improved form of four edge eraser blade as shown in Figs. 1 and 2;

Fig. 5 is a similar perspective view of the spring clamping member employed for securing the eraser blades in position upon the head;

Figs. 6 and 7 show modified forms of blades adapted to be secured to the head in the manners shown in Figs. 1, 2 and 8, and

Fig. 8 shows a side elevation of a modified form of my invention, the same including a handle and head formed integral of one piece of metal and a clamping member adapted to be adjusted by rotary movement for securing a blade to the head instead of by a sliding movement as required by the form of clamping member shown in Figs. 1, 2 and 5.

The form of eraser shown in Figs. 1 and 2 includes a metal head portion 10 having a reduced shank 11 to which a ferruled handle 12 is secured. The head portion is relatively long and wide enough to accommodate the desired width of blade and is also heavy or thick enough to support the blade in position for required operations. The head is provided with a centrally positioned stud 13 and two smaller aligned pins 14—14 which like the said stud is rigidly secured to the head.

The several blades 15, 16 and 17, while differing somewhat so far as their general design is concerned are each provided with a relatively large central hole 18 and two smaller aligned pin holes 19—19, the former to receive the headed stud 13 and the latter to receive the fixed aligned pins 14—14 so as to support the blade in longitudinal alignment with the head and handle, with the forward edge portion of the blade projecting slightly beyond the end of the head so as to present an unobstructed cutting edge.

These blades are secured in position on the pins and against the side of the head by means of a clamping member 20, one form of which is shown in Figs. 1, 2 and 5, adapted to slide longitudinally upon the face of the blade and guided by the said pins 13 and 14, while the other clamping member 20^a is adapted to be rotated on the stud 13^a shown in Fig. 8.

The clamping member 20 is of an elongated form slightly bowed to form a spring tension against the blade when pressed down and into position. This member is provided with a central elongated slot 21 having an enlarged end portion to receive the head of the stud 13 and whereby when the clamp is pressed down and shoved forward the shank of the stud will enter the reduced portion of the slot and the underside of the head will engage the outer face of the clamping member in a way to hold the same in its clamped position.

The clamping member is further provided with two aligned elongated slots 22 to accommodate the pins 14 and to retain the clamping member in alignment with the head and blade. This clamping member is further provided upon its inner end with a finger lug 23 to better facilitate its sliding movement when in frictional engagement with the underside of the head of the stud, it being obvious that the spring tension of the clamping member is sufficient to hold it and the blade in their clamped position.

The head of the fixed stud 13^a, as shown in Fig. 8 is of an elongated shape and is adapted to enter the elongated opening 21^a of the rotatable clamping member 20^a when said clamping member is disposed crosswise of the head as indicated by dotted lines in Fig. 8. The slots 22^a are circular in form being cut in from the opposite edges of the clamping member so as to permit the said clamping member to be turned upon the axis of the stud 13^a and to be guided by the pins 14^a secured to the side of the head. This clamping member is also formed of bowed spring metal and is rotated upon the face of the blade when compressed and held beneath the head of the stud in a manner to clamp the blade to the head in alignment with the head and clamping member. This clamping member may also be provided with a finger lug 23 to facilitate its movement in locking and unlocking the blades.

I claim:

An eraser comprising a head member having a headed stud and guide pin upon one side thereof, a removable eraser blade adapted to fit against the side of the head and having holes to receive the headed stud and the pin, an attachable relatively thin spring clamping member normally bent longitudinal and also provided with openings to receive the stud and pin and adapted to be deflected and slid on the blade to engage the underside of the headed stud under tension in a manner to be secured thereby to clamp the blade by resilient engagement of its end portions with said blade.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 4th day of January A. D. 1926.

GEORGE SCHRADE.