

Jan. 27, 1948.

R. M. WILLIAMS

2,434,973

ERASER WITH MAGNETIC SUPPORTING MEANS

Filed Oct. 1, 1945

Fig. 1.

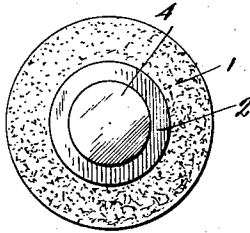


Fig. 2.

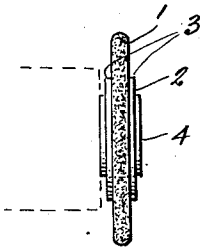


Fig. 3.

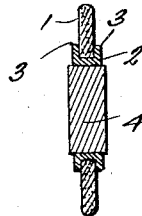


Fig. 4.

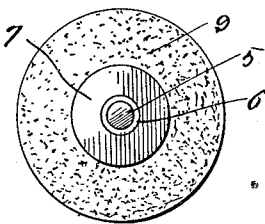
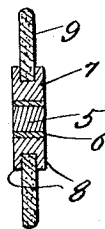


Fig. 5.



INVENTOR
RALPH M. WILLIAMS

BY *Ralph M. Williams*
ATTORNEY

UNITED STATES PATENT OFFICE

2,434,973

ERASER WITH MAGNETIC SUPPORTING MEANS

Ralph M. Williams, Wellington, Kans.

Application October 1, 1945, Serial No. 619,630

7 Claims. (Cl. 120—36)

1

This invention relates to erasers of the type used by typists for making erasures upon papers in a typewriter. Such erasers are circular and mounted about a metal sleeve and since they are placed upon a typewriter stand or desk when not in use they often slide off the stand or desk, or are accidentally covered by papers and concealed from view. This is very annoying as a search for the eraser must be made when it is needed and it is therefore one object of the invention to provide an eraser having a magnet mounted through its sleeve so that by placing the eraser against a portion of the metal typewriter it will be held to the typewriter in such position that it will be in view and may be readily removed for use when needed.

Another object of the invention is to provide an eraser of conventional size so formed that when the eraser is worn to such an extent that it is no longer usable it may be removed from the sleeve about which it is mounted and another applied. Thus eliminating the necessity of discarding the sleeve and the magnet when the eraser is worn out.

Another object of the invention is to provide an eraser which is simple in construction and may be manufactured at small cost.

The invention is illustrated in the accompanying drawings wherein:

Fig. 1 is a side view of the improved eraser.

Fig. 2 is a view showing the eraser clinging to a portion of a typewriter.

Fig. 3 is a sectional view taken diametrically through the eraser.

Fig. 4 is a side view of an eraser having a modified construction.

Fig. 5 is a sectional view taken diametrically through the eraser shown in Figure 4.

This improved eraser has the usual erasing element 1 formed of rubber which may be of the type used for erasing pencil marks or of the type containing sand and used for erasing ink. This eraser 1 has been shown circular but it will be understood that it may be of any shape desired provided it is formed with a central opening to receive a ring or sleeve 2. This ring or sleeve may be formed of magnetic or non-magnetic metal, plastic, or other suitable material and while the sleeve has been shown formed as a single unit it will be understood that it may be formed of two rings disposed in side by side relation to each other if so desired. This ring fits snugly in the opening of the eraser and its flanges overlap side faces of the eraser to such an extent that the eraser will be held in place about the ring. When the eraser

2

becomes worn to such an extent that it is no longer usable it may be removed and another easily applied. A permanent magnet 4 formed of hard steel is fitted through the ring or sleeve 2 and is of such thickness that the sleeve fits tightly about it and of such length that its end portions project from opposite ends of the sleeve as shown in Figures 2 and 3. Since the magnet has its ends projecting from the sleeve it may have either end disposed against a portion of the metal frame of a typewriter, as shown in Figure 2, and it will cling to the typewriter until the eraser is grasped and intentionally removed for use. It will thus be seen that the eraser will be firmly but detachably held in such position that it will not become lost and may be conveniently reached and removed for use. If so desired a steel thumb tack may be pressed into an edge face of a desk or wooden window sill and the core or magnet of the eraser applied to the head of the thumb tack instead of to a position of the typewriter.

In Figures 4 and 5 there has been shown an eraser of a modified construction wherein the permanent magnet 5 is of appreciably less diameter or thickness than the magnet 4. This magnet 5 fits into a non-magnetic sleeve 6 formed of mica or other suitable material and mounted through an opening in the center of a disk 7 formed of plastic, soft iron, or other material and the disk is formed about its periphery with flanges 8 defining a groove into which fits the eraser 9 corresponding to the eraser 1. The magnet 5 and the sleeve 6 are of a length corresponding to the thickness of the disk 7 but ends of the magnet are fully exposed so that when the eraser is applied to the metal frame of a typewriter the magnet will cling to the typewriter and detachably hold the eraser in position to be readily grasped and removed for use.

Having thus described the invention, what is claimed is:

1. In combination with an eraser, a magnet mounted through the eraser with ends exposed at opposite sides thereof in position for engagement with a metal member whereby the eraser will be held to the said metal member in position to be grasped and removed for use.

2. In an eraser, a body of erasing material, a sleeve mounted through the said body of erasing material, and a permanent magnet mounted through said sleeve with its ends exposed for contact with a metal member whereby the magnet will cling to the metal member and hold the eraser in position to be grasped and readily removed for use.

3

3. In an eraser, a sleeve having flanges about its periphery spaced from each other and defining a circumferentially extending seat, a body of erasing material surrounding said sleeve and fitting into the seat between the flanges, and a permanent magnet fitting snugly in said sleeve with its ends exposed.

4. In an eraser, a sleeve formed about its outer periphery with flanges spaced from each other and defining a circumferentially extending seat, a body of erasing material about said sleeve removably mounted in said seat, and a permanent magnet extending through the sleeve with its end portions projecting from ends of the sleeve.

5. In an eraser, a disk formed with a central opening and having flanges about its outer peripheral edges face spaced from each other and defining a circumferentially extending seat, a body of erasing material fitting about the disk and mounted in the seat, a sleeve of non-magnetic material fitting snugly through the central

4

opening of said disk, and a permanent magnet fitting snugly in said sleeve and having exposed ends.

6. In an eraser, a body of erasing material, and a permanent magnet mounted centrally of the erasing material and exposed at a side thereof in position to magnetically hold the eraser against a metal member when not in use.

7. In an eraser, a permanent magnet for engagement with a metal member, and a body of erasing material mounted about the magnet.

RALPH M. WILLIAMS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,268,023	Dunn	Dec. 30, 1941