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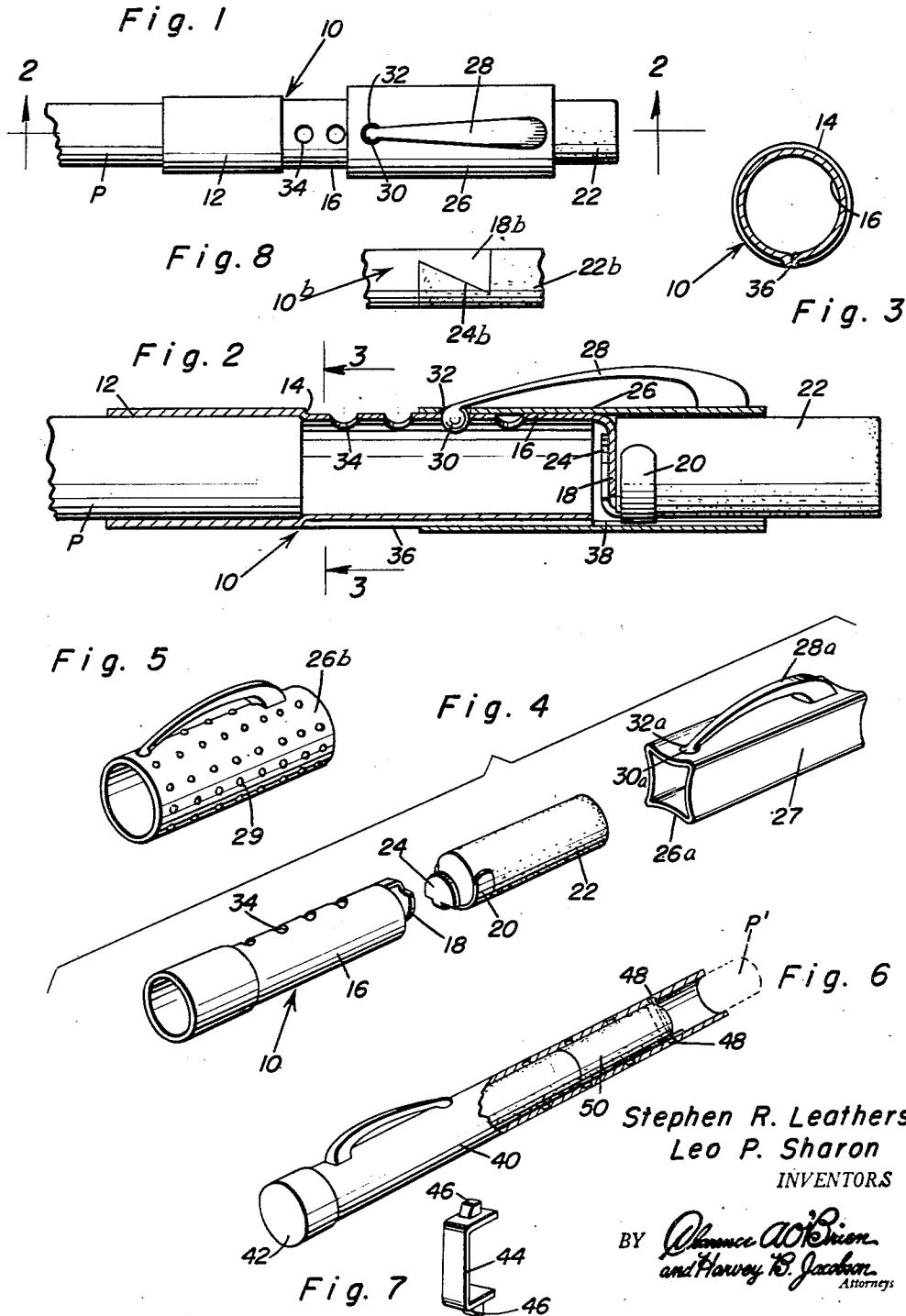
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2,785,655

ERASER HOLDING ATTACHMENT FOR PENCILS

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2 Sheets-Sheet 1



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Fig. 9

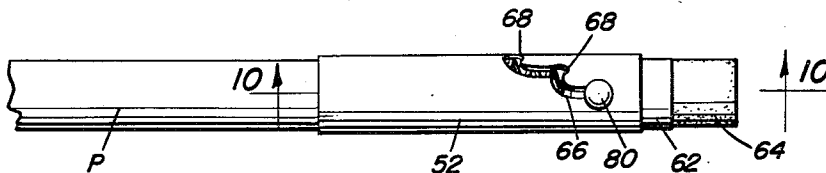


Fig. 10

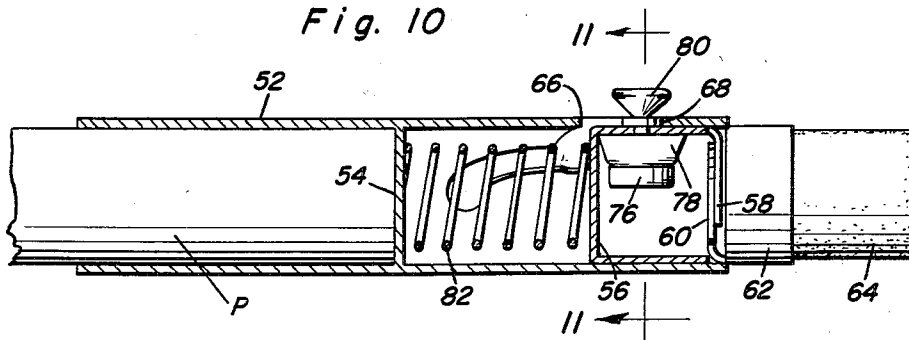


Fig. 11

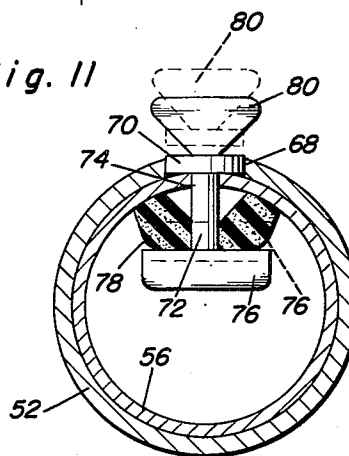
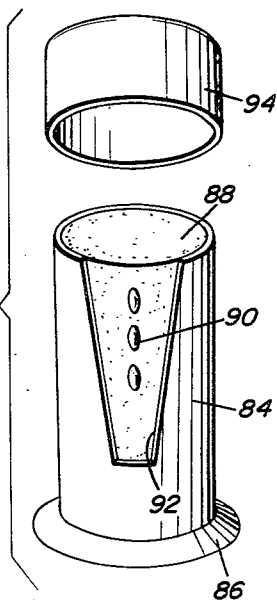


Fig. 12



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ERASER HOLDING ATTACHMENT FOR PENCILS

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3 Claims. (Cl. 120—38)

This invention relates to new and useful improvements in eraser holding devices and the primary object of the present invention is to provide an eraser holding attachment for pencils including novel and improved means for exposing a predetermined portion of an eraser from the attachment.

Another important object of the present invention is to provide an eraser holding device including a tubular holder that will be yieldingly engaged upon the blunt end of a pencil and which has a longitudinally adjustable member therein that will urge an eraser from the holder.

Yet another object of the present invention is to provide an eraser holding attachment for pencils embodying novel and improved means for removably interlocking an eraser with a holding element.

A further object of the present invention is to provide an eraser holding attachment for pencils including a holder slidably adjustably receiving a cover sleeve that is longitudinally adjustable upon the holder to expose an eraser carried by the holder.

A still further aim of the present invention is to provide an eraser holding attachment for pencils that is extremely simple and practical in construction, strong and reliable in use, efficient and durable in operation, neat and attractive in appearance, light in weight, inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary plan view of a pencil and showing the present invention applied thereto;

Figure 2 is an enlarged longitudinal vertical sectional view taken substantially on the plane of section line 2—2 of Figure 1;

Figure 3 is an enlarged transverse vertical sectional view taken substantially on the plane of section line 3—3 of Figure 2;

Figure 4 is a group perspective view showing the present eraser holding attachment in modified form and the components thereof spaced from each other;

Figure 5 is a perspective view of the cover sleeve in modified form;

Figure 6 is a fragmentary perspective view showing the eraser holding pencil attachment in further modified form;

Figure 7 is a perspective view of the travelling member employed in conjunction with the holder shown in Figure 6;

Figure 8 is a fragmentary plan view showing a modified construction for removably interlocking the holder with the eraser;

Figure 9 is a fragmentary plan view of a pencil and showing the present eraser holding attachment, in modified form, attached to the pencil;

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Figure 10 is an enlarged longitudinal vertical sectional view taken substantially on the plane of section line 10—10 of Figure 9;

Figure 11 is an enlarged transverse vertical sectional view taken substantially on the plane of section line 11—11 of Figure 10; and

Figure 12 is a group perspective view of an eraser holder which is to be supported upon a desk, table or the like.

Referring now to the drawings in detail, and more particularly to Figures 1, 2 and 3, wherein for the purpose of illustration, there is disclosed one embodiment of the present invention, the numeral 10 represents a tubular holder having an inner end portion 12 that is adapted to be yieldingly engaged over the blunt end of a pencil. End portion 12 is provided with an internal limiter shoulder 14 that will engage the blunt end of pencil P to limit sliding movement of the holder over the pencil.

The outer end portion 16 of holder 10 is provided with a tongue 18 that extends radially inwardly from the inner periphery of the holder 10 as shown in Figure 2. A U-shaped resilient clip 20 yieldingly engages one end of a cylindrical eraser 22 and is formed with a tongue 24 that is spaced from said one end of the eraser 22 so that tongue 18 may be engaged between tongue 24 and the said one end of the eraser to removably secure the eraser to the holder.

End portion 16 of holder 10 and the eraser 22 are of the same diameter so that a cover sleeve 26 may be telescoped thereover. One end of a spring arm or pocket clip 28 is suitably fixed to the outer periphery of the sleeve 26 and the free end of arm 28 is formed with a ball element 30 that is positioned through an aperture 32 in the sleeve 26.

A series of longitudinally spaced apertures 34 are provided in end portions 16 for selectively registering with the aperture 32 as the sleeve 26 is moved longitudinally of the holder 10. Ball element 30 is yieldingly urged by spring arm 28 through aperture 32 in a selected one of the apertures 34 to retain the sleeve 26 longitudinally adjusted relative to the holder for exposing a portion of the eraser 22.

Means is provided for preventing rotation of the sleeve 26 relative to the holder 10 so that the aperture 32 will be aligned with the aperture 34. This means comprises a longitudinal external rib 36 on the end portion 16 that enters a longitudinal keyway or groove 38 formed in the sleeve 26. Rib 36 is preferably disposed on a portion of end portion 16 diametrically opposite from the portion thereof having the apertures 34.

Figure 4 shows the invention in slightly modified form. In this embodiment, the outer end portion 16 of the tubular holder 10 is provided with a radially extending tongue 18 for engaging between the tongue 24 of clip 20 and one end of a cylindrical eraser 22 gripped by clip 20 all as in the first described embodiment.

The sleeve 26a is provided with four concavo-convexed walls 27 whose concave surfaces face outwardly to provide gripping surfaces for a user's hand which is used to slide the sleeve 26a over the eraser 22 and end portion 16.

One end of a spring arm 28a is fixed to the sleeve 26a. The free end of arm 28a is provided with a ball element 30a which is urged through an aperture 32a in sleeve 26a and into a selected aperture of the series of longitudinally spaced apertures 34 in end portion 16.

Figure 5 illustrates the eraser retaining and exposing sleeve 26b in slightly modified form. Sleeve 26b is cylindrical and its outer surface is provided with outwardly projecting protuberances 29 to form a gripping surface for the fingers of a user as the sleeve is adjusted longitudinally of a holder, such as holder 10. Protuberances 29

may be formed on the outer surface of cylindrical sleeve 26b or depressed from the cylindrical wall of sleeve 26b.

Reference is now directed to Figures 6 and 7, wherein there is illustrated the present invention in modified form. In this embodiment, the elongated tubular holder 40 is provided with a removable end cap 42 at its outer end.

The open inner end of holder 40 is adapted to be yieldingly engaged over one end of a pencil P' and slidably receives a U-shaped resilient travelling member 44 having outwardly projecting coaxial lugs or teeth 46 on its limbs. The inner periphery of holder 40 is provided with longitudinally spaced diametrically opposed recesses 48 for selectively receiving the lugs 46 to retain the member 44 longitudinally adjusted in the holder 40.

The legs 46 are cammed surfaced and the recesses 48 are complementally shaped so that the pencil P' may be used for moving the member 44 longitudinally in the holder 40 in a step-by-step manner to expose the outer eraser of a group of erasers 50 from the outer end of the holder 40 after the cap 42 is removed.

Figure 8 illustrates a modified interlocking means between the holder and the eraser. The holder 10b is provided with a dove-tailed tongue 18b for entering the dove-tail end recess 24b in the eraser 22b.

Attention is next directed to Figures 9, 10 and 11, wherein there is illustrated the eraser holding pencil attachment in further modified form. In this embodiment, the tubular holder 52 is provided with an intermediate partition 54 constituting a stop for the blunt end of a pencil P that is inserted in the inner end of the holder.

A hollow cylindrical travelling member 56 is slidably received in the outer end portion of holder 52 and its outer open end is formed with a radially inwardly extending tongue 58 that is yieldingly engaged between a radial tongue 60 on a U-shaped clip 62 and one end of a cylindrical eraser 64 engaged by the clip 62.

The outer end portion of holder 52 is provided with an undulated slot 66 with longitudinally spaced enlargements 68 for selectively accommodating the rigid outer flange portion 70 of an adjuster stem 72. The stem 72 is slidably received in an aperture 74 in member 56 and its enlarged inner end 76 is retained yieldingly spaced from the inner periphery of member 56 by a rubber cup-shaped washer 78 engaged on stem 72 and biased between the inner periphery of member 56 and end 76.

Washer 78 also yieldingly retains the flanged portion 70 in one of the enlargements 68 so that in order to longitudinally adjust the member 56 within the holder 52, it is necessary to pull the stem 72 radially outwardly by the finger gripping knob 80 formed on the flange portion 70.

A coil spring 82 in the outer end portion of holder 52 is biased between partition 54 and member 56 to yieldingly urge the member 56 from the outer open end of the holder. In order to expose the eraser from the holder as the eraser becomes worn, the knob 80 is pulled radially outwardly to remove flanged portion 70 from an enlargement 68 and then the member 56 is rotated and moved to permit the flanged portion 70 to enter the next enlargement 68.

Reference is next directed to Figure 12 wherein there is illustrated an eraser holder including a cylindrical member 84 having a flanged base 86 that will permit the

member 84 to be disposed in a vertical position when the base is engaged with a flat horizontal surface, such as a desk or table top.

A cylindrical eraser 88 is slidably received within the member 84 and is provided with a series of longitudinally spaced finger gripping lugs 90 that register with a vertical slot 92 in the member 84. The finger gripping lugs 90 are accessible through the slot 92 so that the eraser 88 may be moved vertically outwardly from the member 84 to permit use of the eraser.

A removable cap 94 is engaged over the upper end of the member 84 to retain the eraser 88 within the member 84.

It is noted that the holders 10, 40 and 52 are of resilient material, such as plastic, so that the same will be yieldingly engaged and gripped upon the blunt end of a pencil. The spring arms on the sleeves 26, 26a, 26b can be employed for attaching the pencil and eraser holder to a user's pocket since the material of the pocket may be forced by the ball element partially through aperture 32 and the aperture 34 in registry therewith to restrict sliding movement of the sleeve relative to the holder.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claims.

What is claimed as new is as follows:

1. A tubular eraser holder adapted to be slid at one end onto a pencil, a diametrical tongue formed on the other end of said holder outwardly thereof, an elongated eraser, a resilient clip straddling said eraser transversely thereof, said clip and one end of the eraser conjointly straddling and gripping said diametrical tongue, and a sleeve telescoped over the holder and eraser and slidable on the holder to selectively conceal and expose both said eraser and clip.

2. An eraser holder as in claim 1, said clip including a resilient tongue extending across said end of the eraser and together with said end of the eraser straddling and gripping the diametrical tongue.

3. A tubular eraser holder adapted to be slid at one end onto a pencil, a diametrical tongue at the other end of said holder attached thereto, an elongated eraser, a resilient clip straddling said eraser transversely thereof, said clip and one end of the eraser conjointly straddling and gripping said diametrical tongue, and a sleeve telescoped over the holder and eraser and slidable on the holder to selectively conceal and expose said eraser and clip.

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