Sept. 21, 1926. 1,600,903

M. I. NORDMANN

HOLDER FOR PENCILS, CRAYONS, AND THE LIKE

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Fig.1.

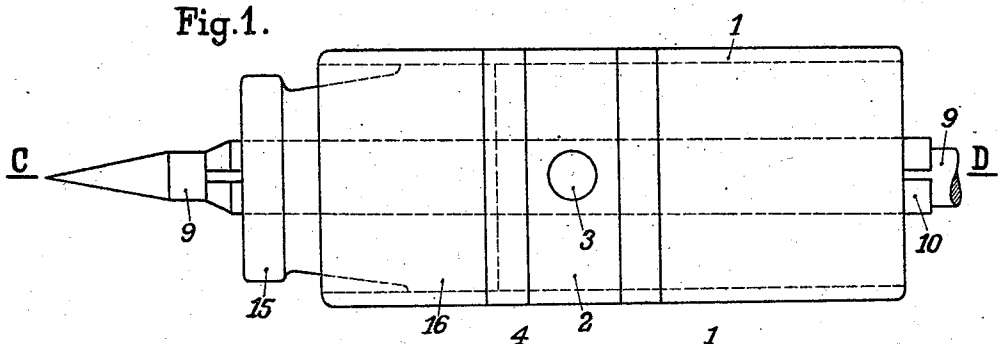


Fig.2.

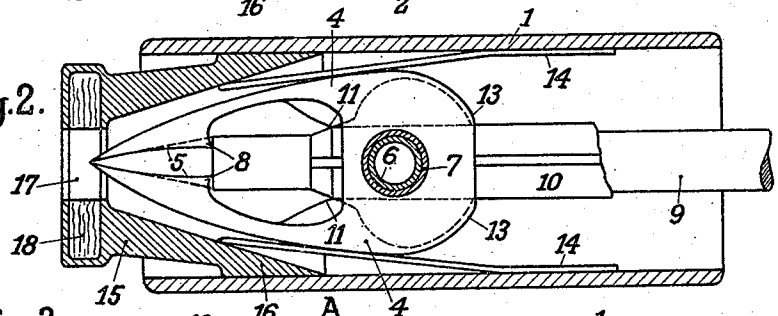


Fig.3.

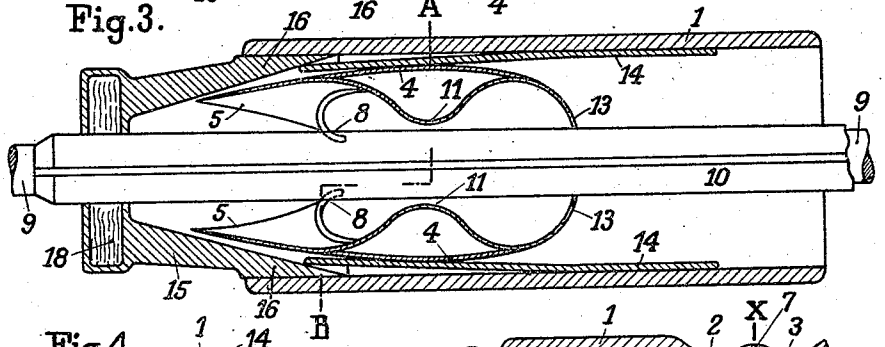


Fig.4.

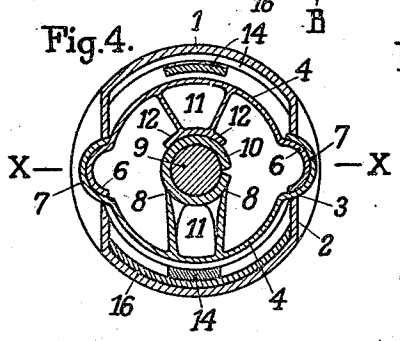
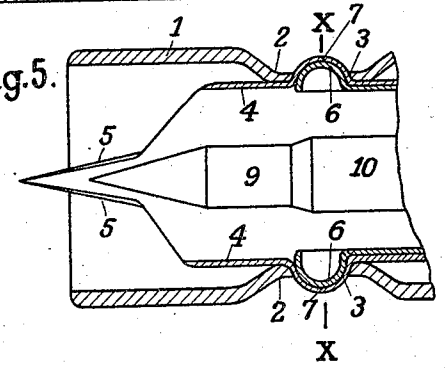


Fig.5.



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UNITED STATES PATENT OFFICE.

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HOLDER FOR PENCILS, CRAYONS, AND THE LIKE.

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This invention relates to a holder for pencils, crayons and the like provided with a sharpening device, point protector and dust collector. The new holder can be very profitably used for soft, dust-producing pencils and crayons etc. and for all other kinds whether they are covered by some material or whether they consist of bare lead, chalk etc. without any covering. Furthermore, the holder can be used for all sizes of pencils and crayons and the like as its internal mechanism is arranged so as to be adapted to several sizes of pencils etc. while provisions have been made to employ a special socket for holding very thin pencils etc.

The superior features of my new holder are quite numerous as it represents a combination of a sharpening device, point protector, dust collector and pencil etc. holder. The new holder makes it possible to save a lot of time which is otherwise wasted on sharpening and permits the sharpening of the point with one hand. This sharpening takes place by moving the hand during a period of rest when engaged in writing.

All existing types of holders and sharpeners suffer from the drawback that the point is either not sharp enough or breaks off all the time while my new holder never fails in producing a fine sharp point. This is due to the fact that the pencil or crayon is not held by a special holding device within the shell and is not sharpened by a special sharpening device as in the usual kinds of holders but that gripping jaws have been arranged within the shell for the purpose of sharpening the point and holding the pencil and the like in position at the same time. To fulfill their purpose, these gripping jaws have been designed to act as cutting and sharpening surfaces as well as clamps. To ensure steady sharpening and guiding of the pencil of the like within the shell, these gripping jaws have been arranged in pairs and provided with cutting and sharpening surfaces which, without representing a straight line, produce the conical point and which execute partly a scraping and partly a cutting movement during the sharpening process while simultaneously guiding and gripping the pencil or the like. This arrangement in pairs enables the user of the holder to sharpen the point of a pencil, crayon and the like by giving the shell a few turns by the thumb and middle finger of the writing hand as each turn will cause one cutting edge of each pair of jaws to execute a cutting movement and the other one, to execute a scraping movement while the action is reversed if the direction of rotation is altered. To sharpen the point, the pencil or the like is held with the little finger of the writing hand in the palm and fixed by adjusting the gripping jaws which serve for guiding and sharpening it by means of a cover resembling a stuffing box and being inserted in the shell. This cover seals at the same time the inside of the holder while the latter is employed for writing, so that the dust and shavings produced by sharpening cannot drop on the paper.

One form of the invention is illustrated in the accompanying drawing, in which Fig. 1 is an outside view of the new holder; Fig. 2, a longitudinal section of the entire holder with the gripping jaws inside the shell in cutting position, the line running in front of the jaws; Fig. 3 a longitudinal section of the shell, the gripping jaws holding the pencil which is freely suspended within the shell; Fig. 4, a cross section on the line A—B, Fig. 3; and Fig. 5, a longitudinal section on the line C—D, Fig. 1.

The most essential part of the holder is the shell 1, provided with recesses 2 and bores 3. 4 are two gripping jaws fitted in front with two cutting edges 5 each and resting with their middle portions 6 and 7 in the bores 3 where they are held by spring action, so that they can oscillate only about the axis x—x (Figs. 4 and 5). These gripping jaws 4 are equipped with the four gripping points 8 which grip the pencil or crayon at any position of the jaws and which keep it steady and guide it. In the modification shown here the pencil 9 rests in a special socket 10 which, together with the pencil it holds, can be shifted in the direction of the longitudinal axis of the pencil. If the latter is thick enough, the socket 10 may be dispensed with. The jaws 4 are further provided with the indentations 11 which raise and lower them while passing over the conical surface and which, as shown in Fig. 4, envelop a larger part of the pencil's circumference with their catches 12. The gripping jaws are finally equipped with ends 13 which contribute their share towards a safe guiding of the pencil or the like. 14 are springs firmly secured to the inside of the shell 1, whose free elastic ends

apply pressure to the jaws 4 in order to keep them continually closed according to Fig. 2. 15 is a cover whose end 16 is securely guided in the shell 1 in the manner of a circular slide valve. This cover is provided with a passage 17 for the pencil or the like or the socket and felt ring 18. The passage 17 is of the same diameter as the pencil or socket so as to ensure tight closing of the inside of the shell when the socket 10 or the pencil 9 are pulled out. The internal conical surface of the annular end 16 of this cover 15 applies pressure to the springs 14 and supplements their action in such a way that, by inserting the cover 15 in the shell 1, the springs 14 are caused to rest firmly on the jaws 4 which in turn are thus caused to rest firmly on the pencil 9. By pulling out the cover 15 the springs are released and the jaws 4 with them so as to permit longitudinal shifting of the pencil.

The holder functions as follows: to sharpen a pencil or the like, the shell 1 is held between the thumb and middle finger of the writing hand while the index finger shifts the cover 15 and thus adjusts the jaws 4. The rear end of the pencil itself is held in the palm by the little finger. If the shell and cover are turned, the pencil is sharpened, provided it is in the position indicated in Fig. 2. After sharpening the lid 15 and the pencil are pushed forward by the forefinger, so that the jaws 4 occupy the position shown in Fig. 3 and their gripping points 8 rest on the pencil or socket. The pencil can then be moved forward at will, either with or without its socket, whereupon the cover is pushed slightly back into the shell and the position of the pencil finally fixed, so that it is ready for writing. The inside of the holder is tightly shut off in this position by the felt ring 18 which closely envelops the pencil or socket.

I claim:—

1. A holder for pencils, crayons and the like provided with a sharpening device, point protector and dust collector characterized by gripping jaws arranged within the shell of the holder, the said jaws carrying in pairs cutting edges and gripping points and resting with their middle portions in bores of the said shell.

2. A holder for pencils, crayons and the like provided with a sharpening device, point protector and dust collector characterized by a cover, inserted in the shell of the said holder and the said cover being provided with a passage for the pencil and the like and having a felt ring and an annular end with an internal conical surface to adjust the gripping jaws of the pencil and the like.

In testimony whereof I affix my signature.

MAX I. NORDMANN.