Dec. 1, 1959 G. GIGLI 2,915,041

WRITING DEVICE

Filed July 28, 1958

FIG. 1

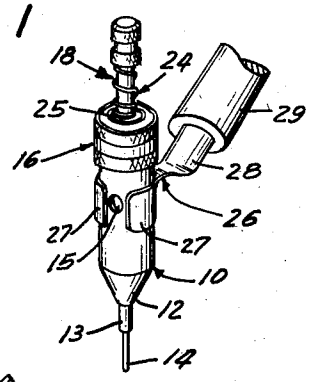


FIG. 2

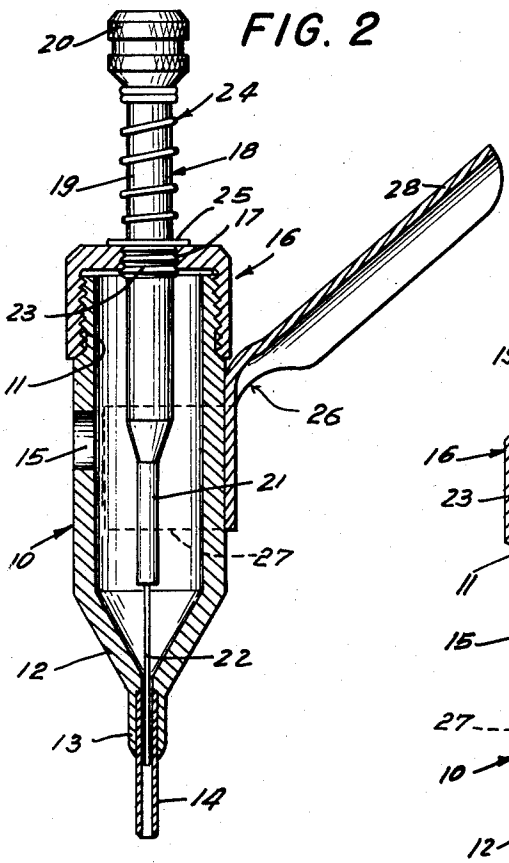
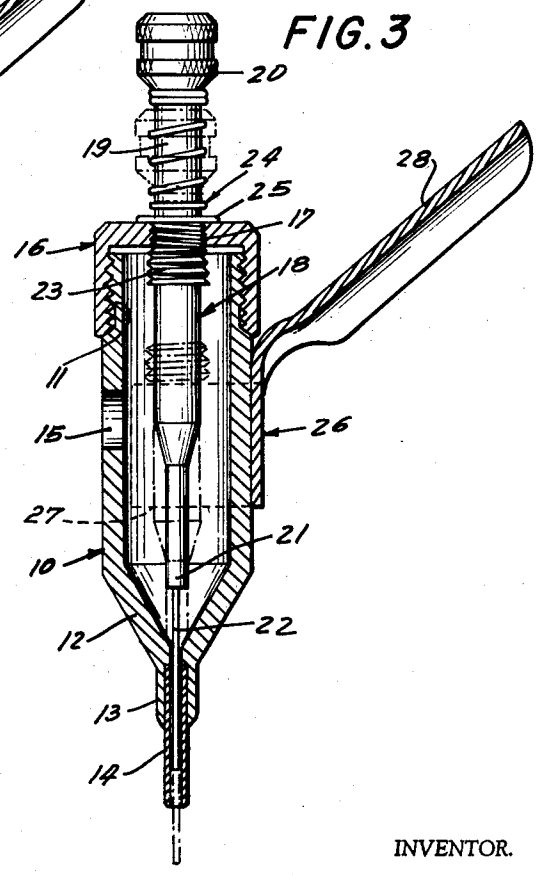


FIG. 3



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WRITING DEVICE

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4 Claims. (Cl. 120—44)

This invention relates generally to writing devices and particularly to what are known as ink-holding scribers or pens.

The present invention particularly deals with a writing device of the type indicated which is designed to be attachable to or detachable from an ordinary pen holder, and presents numerous advantages over heretofore existing similar devices.

One of the objects of the present invention is the provision of a scriber or drawing pen of simple, inexpensive and effective construction, which is adapted for attachment to and detachment from an ordinary pen holder.

Another object of this invention is the provision of a scriber as stated above, which is provided with an ink reservoir and a closeable side opening for filling that reservoir.

A further object of this invention is the provision of a scriber or drawing point as stated above, wherein the reservoir is provided with a removable cap or closure, and which closure has a central internally threaded opening to receive a cleansing instrumentality, and wherein that cleansing instrumentality consists of a pin provided with an operating head at one, its outer end, and with a reduced lower end in which is mounted a cleansing wire, and wherein the body of the pin is provided with a short, externally threaded portion between its ends for engaging the internal thread of the cap or cover, and wherein the pin is adapted for reciprocation within the reservoir under spring tension effected by a spiral compression spring disposed between the head of the pin and the outer surface of the cap or cover.

A further object of this invention is to provide a writing instrumentality or drawing point of the above described advantages and wherein a clip is placed about the body of the reservoir and which clip is removable and adjustable and may be turned so as to close the side opening to the ink reservoir, and wherein the clip is provided with an extension for attachment to or removal from an existing, ordinary pen holder.

The foregoing and still further objects and other advantages of the present invention will become more fully apparent from the ensuing description in conjunction with the accompanying drawings, wherein:

Fig. 1 is a perspective view of the device;

Fig. 2 is an enlarged vertical cross section through the device, showing the cleansing instrumentality in its inoperative position; and

Fig. 3 is a similar vertical cross section through the device showing the cleansing instrumentality in operative position.

In the drawing numeral **10** denotes a substantially cylindrical hollow body which is externally threaded at its upper end at **11**, while its lower end **12** forms a hollow cone which terminates in a cylindrical extension **13**. In that extension a cylindrical writing tube **14** is held. In the side of the cylindrical body there is provided a filling aperture **15** through which ink may be

placed into the lower portion of the reservoir body. Engaging the external thread **11** at the top of the reservoir is an internally threaded cap or closure **16** provided with a central opening **17** which is internally threaded. Operative within the body is what may be termed a writing tube cleansing device generally indicated at **18**, and comprising a pin **19** provided at its upper or outer end with an enlargement or head **20**, while its lower end **21** is reduced in size, and in which lower end there is mounted a writing tube cleansing wire **22**. Between the head and the lower end of pin **19** there will be seen a short externally threaded portion **23** which is adapted to engage the central internally threaded opening **17** of cap **16**.

Between the head and the upper or outer face of the cap there will be seen a compression spring **24**, the lower end **25** of which is of a sufficiently large diameter to clear aperture **17** of the cap and thread **23** of pin **19**. The convolutions of the spring between the pin head and the lower enlarged end of the spring are closely wound about the pin body. Spring **24** normally urges head **20** of the pin in upward direction.

Surrounding and forcibly engaging the outer body **10** of the device there is provided a removable spring clip **26** having two substantially semi-cylindrical, resilient lips **27**. Either of the lips may form a closure for aperture **15** when the clip is turned in respect to body **10**. Extending from the lips is a semi-cylindrical member **28** adapted for attachment to or removal from an existing ordinary common pen holder, as indicated at **29**.

Operation

The present writing device or drawing point is particularly intended for use with a template, that is writing tube **14** is preferably guided along the edge of such template, for instance, lettering templates, although the use of the device is not limited to its operation with templates. It may be used freehand or against the edge of a ruler or other drawing instruments.

Before ink is placed into the reservoir it is preferred to have pin **19** in the position shown in Fig. 2, that is its threaded portion **23** engaging the internally threaded central opening **17** of cap **16**. In this position the action of spring **24** is neutralized. Now the device can be attached to a holder and can be used for writing.

In the event the ink in writing tube **14** dries or clogs it is a simple matter to clear tube **14** by means of wire **22**. For operating the cleansing device, comprising the pin **19** and wire **22**, the threaded portion **23** of the pin is freed from the internal thread of opening **17** of the cap as shown in Fig. 3, and now pin **20** can be reciprocated within the body of the device so that wire **22** passes through and in and out of writing tube **14**, thereby cleansing the latter.

When it is desired to cleanse the entire device, pin **19** can be completely removed from cap **16** by passing its short threaded portion **23** above the outer face of the cap, in which event the pin is completely removable. Now the cap can be unscrewed and the entire device can be thoroughly cleansed.

As will be readily understood, spring **24** is so designed that its lower end is, as stated above, of a sufficiently large diameter to extend circumferentially beyond the periphery of the threaded cap opening **17**, whereas the convolutions of the spring between its lower large diameter spring end and the head **20** of the pin closely but freely surround the body portion of the pin beneath the head.

While the above description deals specifically with the construction shown in the drawing, it is well understood that minor changes required during mass production may be essential, such changes being deemed to reside within the scope of the annexed claims.

What is claimed as new is:

1. A writing implement with an ink-holding reservoir adapted for removable attachment to an existing pen holder and comprising in combination a hollow, substantially cylindrical body having a hollow conical lower end which terminates in a substantially cylindrical, hollow extension, a writing tube fastened within said extension, a closure for the upper end of the body removably secured thereto and having a central threaded aperture, a cleaning device passing through said aperture and comprising a cylindrical pin having an enlarged outer end and a reduced inner end, a wire extending from the latter intended for passage into said writing tube, said pin having a relatively short threaded portion between its ends for engaging the threaded aperture in said closure, and spring means between said closure and said outer enlarged pin end for normally urging the pin in outward direction in respect to said hollow body, the threaded pin portion serving for holding the pin in inoperative position when engaging the threaded central aperture of the closure.

2. In a writing implement according to claim 1, the lower end of said spring means being sufficiently large in diameter to extend circumferentially beyond the periphery of the threaded central aperture of said closure, whereas the convolutions of the spring above its large lower end closely but freely surround the body portion of the pin beneath its enlarged outer end.

3. In a writing implement according to claim 2, and wherein the short threaded portion of the pin is adapted to either engage or disengage the threaded central aperture of the closure for rendering the pin either immovable relative to said closure and thereby to said body, thus causing said spring means to become inoperative, or rendering the pin mobile and biased by said spring means when the pin is turned to move its short threaded portion beyond the interior face of said cap, at which position the pin can be subjected to an axially reciprocating movement whereby the wire is caused to cleanse said writing tube; said pin and said spring means being bodily removable from the device when said threaded portion of the pin is unscrewed beyond the outer face of said closure.

4. In a writing implement according to claim 2, and wherein an aperture is provided in the wall of a body, and wherein said resilient, bodily removable clip engages the outer surface of said body, said clip having two substantially semi-cylindrical, partly spaced lips so arranged that either of the lips can be caused to cover said aperture when the clip is turned about said body.

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