

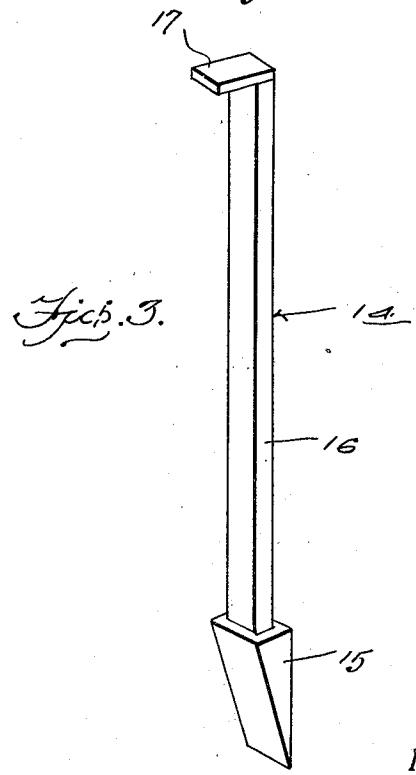
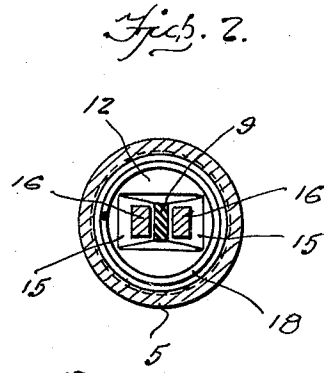
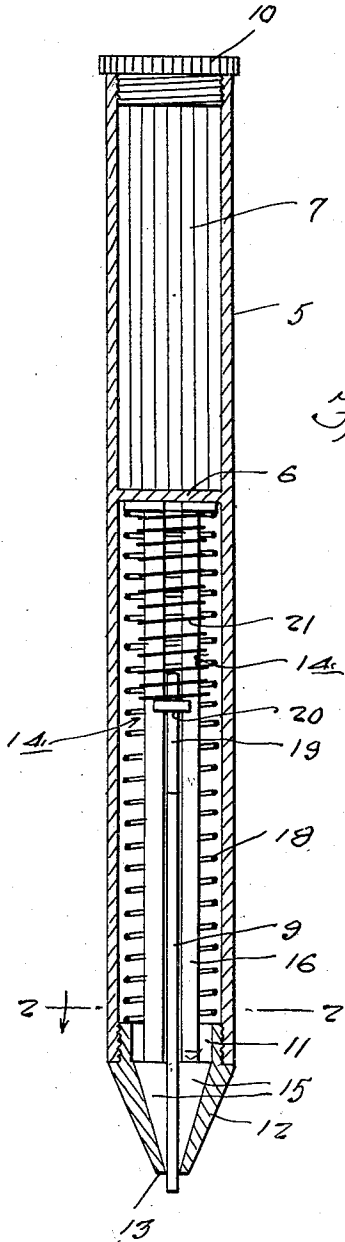
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H. TURNER

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MECHANICAL PENCIL

Filed June 18, 1929



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MECHANICAL PENCIL

Application filed June 18, 1929. Serial No. 371,830.

This invention relates to new and useful improvements in pencils and more particularly to a pencil of the renewable point type. The device is especially useful to carpenters and other wood workers who employ pencils of the broad marking type. The principal object of the invention is to provide a pencil of the type mentioned which by a slight manipulation will permit the expulsion of the marking element to the extent desired.

Another salient object of the invention is to provide a mechanical pencil wherein the parts are positive acting and of sturdy construction, rendering the device practically free from ordinary defects.

These and other important objects of this invention will become apparent to the reader after considering the invention as described and claimed hereinafter.

In the drawings:

Figure 1 represents a longitudinal sectional view through the improved pencil.

Figure 2 is a cross sectional view, taken substantially on the line 2—2 of Figure 1.

Figure 3 represents a perspective view of one of the clamp members.

In the drawings, wherein like numerals designate like parts, it will be seen that the novel device includes an elongated ferrule 5, provided with a partition 6 therein separating the upper lead containing chamber 7 from the lower chamber 8, wherein the means for seating a lead or marking element 9 is located. Each end of the barrel 5 is opened and internally threaded, the upper end being adapted to receive the knurled plug 10, while the lower end receives the reduced externally threaded sleeve 11, of the actuating cap 12. The cap 12 is hollow and tapered and has a pair of its converging opposed sides disposed toward the blunt end 13, which end is provided with an elongated opening to receive the lower end of the marking element 9.

Arranged within the chamber 8 of the barrel 5 are the elongated clamp members, generally referred to by numerals 14—14.

Each of the clamp members 14 consist of a wedge shaped door 15 and an elongated

shank 16 with a wedge-shaped head on one end and with a lateral offset or lug 17 at its opposite end. When the clamp members are properly disposed within the chamber 8, the lugs 17 are disposed in opposite directions and the coiled spring 18 interposed between the cap 12 and the lug 17 serves to hold the clamp members in abutting relation to the upper end of the chamber 8.

A slider 19 is adapted to slide between the shank 16 in abutment with the inner end of the marking element 9. The slider 19 has a protuberance 20 thereon, against which one end of the spring 21 impinges. The opposite end of the spring 21 bears against the lug 17, and the spring is convoluted about the shank 16 in the manner clearly shown in Figure 1.

Obviously by permitting the lower end of the marking element 9 to protrude the distance desired beyond the cap 12, the feeding inwardly of the cap 12 will contract the jaws 15 against opposite sides of the marking element to firmly clamp the same in a definite position. After the external portion of the marking element has worn off, the cap 12 may be gradually loosened so as to gradually permit the separating of the jaws 15. This will result in the feeding outwardly of the marking element 9 by the spring 21.

It will thus be seen that the device does not employ the delicate parts that most pencils of this type are constructed of and that in the use of the pencil the marking element will not tend to slip inwardly or otherwise become displaced.

It is also to be understood that while the foregoing specification has been in specific terms, it is to be understood that numerous changes in the specific shape, size, and materials may be resorted to, without departing from the spirit or scope of the invention as claimed hereinafter.

What is claimed as new is:

A mechanical pencil comprising a barrel, a pair of clamp members, said clamp members being of wedge-shape, a removable tapering cap at one end of the barrel for re-

ceiving the wedge-shaped clamp members,
securing means for retaining the clamp
members within the barrel when the cap is
being removed, and tensional feed means
5 for moving the marking element between the
clamp members.

In testimony whereof I affix my signature.
HENRY TURNER.

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