

PATENT SPECIFICATION



Application Date: July 18, 1923. No. 18,551/23.

220,435

Complete Accepted: Aug. 21, 1924.

COMPLETE SPECIFICATION.

Pencil Holder.

I, KARL FEND, of No. 93, Frieden-
strasse, Pforzheim, Germany, of German
nationality, do hereby declare the nature
of this invention and in what manner the
same is to be performed, to be particu-
larly described and ascertained in and by
the following statement:—

This invention relates to a pencil
holder of the type in which the lead is
brought into the advanced position by
the movement of a pushing pin in longi-
tudinal direction and comprises an inter-
nally threaded magazine for the reserve
leads, closed by a head adapted to be
screwed off. The pushing pin is guided
in a rotatable plunger which consists of
a tube slit in longitudinal direction, and
is adapted to be pulled out during the
writing, in order to lengthen the pencil.
A head is mounted on the end of this
plunger designed to move the push pin
positively forward or backward accord-
ing to the direction in which said head
is being rotated. With this object in
view the push pin has at its end a flat-
tened nut engaging with the grooves of
an internally and externally threaded
sleeve into the magazine sleeve and sup-
ported at the lower end in a bearing
sleeve which is fixed by soldering on the
inner wall of the casing. The threaded
sleeve projects beyond the magazine
sleeve and receives on its outer end the
head for closing the magazine. The
magazine sleeve is of star-shaped cross
section and is rigidly connected with the
casing as in known constructions.

The black-lead pencil taken from the
magazine and inserted into the holder is
securely guided by a bored steel point
mounted in the point of the holder and
made elastic by slits. This split steel
point does not form part of the present
invention.

The invention will be best understood
from a consideration of the following
detailed description taken in connection

with the accompanying drawing forming
a part of this specification, with the
understanding that while on the draw-
ing one embodiment of the invention is
disclosed, the invention is not confined
to any strict conformity with the showing
of the drawings, but may be embodied
in any manner which does not make a
material departure from the salient
features of the invention.

In the drawing:—

Fig. 1 shows in longitudinal section
the pencil holder according to this
invention.

Fig. 2 shows the inner mechanism
without the outer sleeve partly in eleva-
tion and partly in section.

Figs. 3 and 4 show the plunger with
the push pin in two positions standing at
right angles the one to the other.

Fig. 5 is a cross section of Fig. 4.

Fig. 6 shows in cross section the maga-
zine sleeve with the reserve lead pencils.
a is the sleeve-like casing of the pencil
holder of circular or polygonal cross
section into the rear end of which the
magazine sleeve *b* is inserted which is
fixed in position by soldering. The
magazine sleeve *b* is internally threaded,
of star-shaped cross section (see Fig. 6)
and closed at the inner end by a plate *c*.

The spaces between the inner wall of
the casing *a* and the magazine sleeve *b*
serve each to accommodate one reserve
lead pencil *d*.

Into the internal thread of the maga-
zine sleeve *b* an internally and externally
threaded sleeve *e* is screwed on the rear
end of which, projecting from the maga-
zine sleeve *b*, a head *f* is screwed which
closes the rear end of the magazine. The
threaded sleeve *e* is supported at the front
end in a bearing sleeve *g* fixed by solder-
ing on the inner wall of casing *a*. In the
front end of a smooth extension *p* of the
threaded sleeve *e* a tube *o* is mounted
which serves as holder for the lead pencil

[Price 1/-]

and is further designed to receive the front end of a push pin *i*.

In the threaded sleeve *e* the plunger *h* is rotatably mounted which is designed to positively guide the push pin *i*. This plunger *h* consists of a sleeve slit on its entire length, a holding knob *k* being fixed on its outer end. A flat externally threaded block *m* fixed to the rear end of the push pin *i* engages with the opposite slits of the plunger *h* so that its threaded edges projecting through these opposite slits engage with the internal threads of the sleeve *e*. In the conical front end of the casing *a* a steel point *n* is inserted which is rendered elastic by longitudinal slits and has a tubular threaded extension screwed into the conical front end of casing *a*. The inner diameter of the bore of the steel point is somewhat narrower than the diameter of the lead pencil *d*.

The pencil holder is used in the following manner:

The head *k* is rotated in anti-clockwise direction until the plunger *h* with the block *m* and the push pin *i* fixed to said block can be pulled out of the casing *a*. The head *f* having been screwed off the projecting ends of sleeve *e* a graphite lead *d* is taken from the magazine and the head *f* is screwed on to close the magazine again. The graphite lead is inserted into the pencil holder from the front end of the same so that it is stored in the lead tube *o*. The plunger *h* with the push pin *i* is re-inserted into the holder whereupon the head *k* is rotated in clockwise direction so that the block *m*

is screwed forward in the internal threads of sleeve *e* and the push pin *i* is thus positively advanced in longitudinal direction in pushing forward the graphite lead through the tube *o* and through the steel point *n* into the working position.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

Pencil holder in which the lead is advanced by means of a push-pin and provided with a magazine closed by a head adapted to be screwed off, characterized in that the internally threaded magazine of star-shaped cross section is closed by a head screwed on the rear end of a threaded sleeve *e* screwed into said magazine, said threaded sleeve *e* being also internally threaded to receive the threaded edges of a block *m* fixed on the rear end of the push pin *i* which is positively guided by a rotatable plunger *h* consisting of a sleeve having two opposite longitudinal slits and having a knob on its outer end by means of which said plunger can be pulled out of the pencil holder during the writing so that the pencil holder is lengthened for the extent which the actual position of the push pin *i* permits.

Dated this 18th day of July, 1923.

FRANCIS HERON ROGERS,
Agent for Applicant,
Bridge House,
181, Queen Victoria Street, London,
E.C. 4.

[This Drawing is a reproduction of the Original on a reduced scale.]

