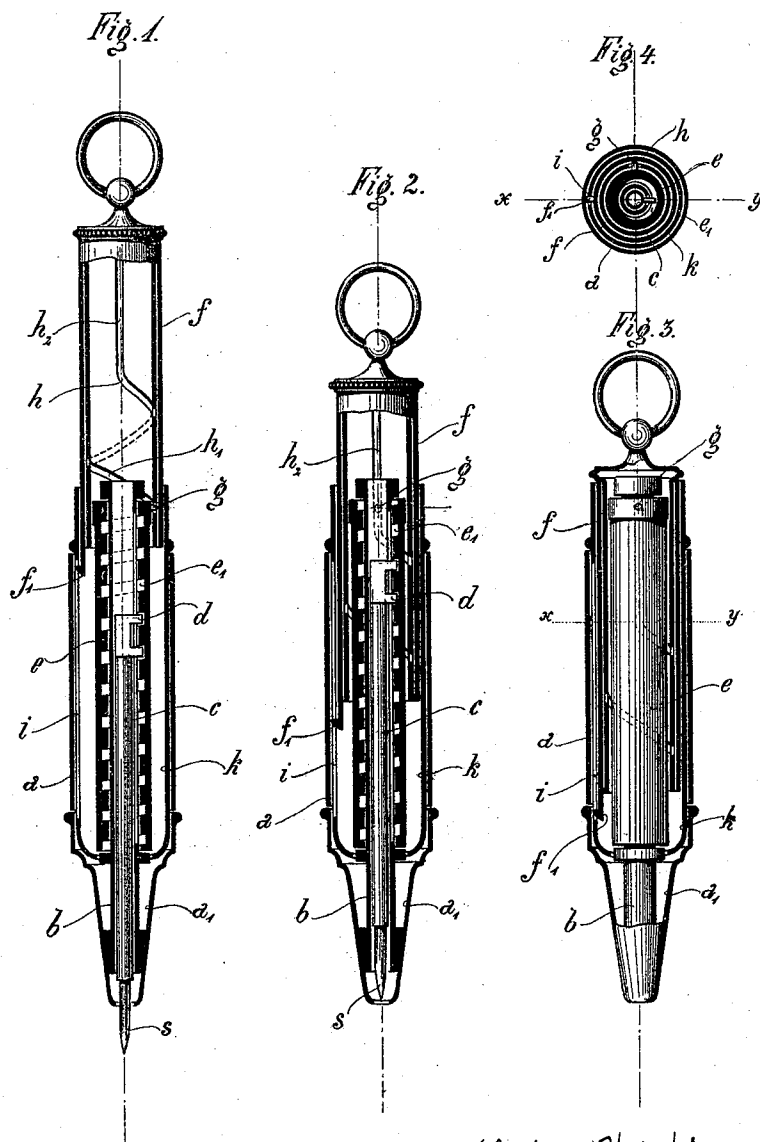


(No Model.)

O. HÄRPFER.
PENCIL CASE.

No. 544,533.

Patented Aug. 13, 1895.



Oskar Härfper

Inventor

Witnesses

J. B. Paige
H. A. Rubino

By Claudio A. Pagan
Attorney

UNITED STATES PATENT OFFICE.

OSKAR HÄRPFER, OF NUREMBERG, GERMANY.

PENCIL-CASE.

SPECIFICATION forming part of Letters Patent No. 544,533, dated August 13, 1895.

Application filed May 18, 1895. Serial No. 549,786. (No model.) Patented in Germany April 5, 1894, No. 79,386.

To all whom it may concern:

Be it known that I, OSKAR HÄRPFER, a subject of the German Emperor, residing at Nuremberg, in the Empire of Germany, have invented certain new and useful Improvements in Pencil-Cases, (for which I have received Letters Patent in Germany, dated April 5, 1894, No. 79,386,) of which the following is a specification.

10 This invention has for its object an improved extensible or pull-out pencil-case with a so-called "English" or "ever-point" guide device, and is designed to effect by the drawing out of a case a lengthening of the holder and simultaneously a protrusion of the lead out of the hollow point of the holder into a position ready for use. Means are also provided whereby the lead may be screwed in or out by turning the pull-out case.

20 This improved pencil-case having the action set forth is shown in the accompanying drawings, in which—

Figure 1 is a longitudinal section with the holder extended; Fig. 2, a longitudinal section when partly shut up; Fig. 3, an elevation, partly in section, of the pencil-case completely closed; and Fig. 4, a transverse section on the line *xy* of Fig. 3.

30 The invention will now be described, reference being had to the drawings.

Inside the holder a so-called "English" or "ever-point" guide device is suitably secured. This latter consists of a tube *b*, fixed to the holder or outer case *a* and provided longitudinally with a straight guide-slot, the said tube *b* containing a lead-tube *c*, which is adjustable longitudinally therein, the tube *c* having for this purpose at its rear end a projection *d* working in the said longitudinal slot and projecting through the slot, so as to engage in the thread *e'* of an internal screw formed in a case *e*, which surrounds the tube *b*. The case *e* is made revoluble on the tube *b* without longitudinal movement. By turning the case *e* the projection *d*, (which is guided in a straight line,) together with the lead-tube *c*, is pushed forward or backward. In order to effect this movement of the lead by drawing out the pull-out case *f*, the threaded case *e* carries at its upper end a stud or pin *g*, which engages in a slot *h*, formed in the pull-out case *f*. This slot is of a spiral

form in the forward part *h'* of the case, but is straight in the rear part *h''*. The case *f* itself is guided in a straight line and prevented from falling out by means of a projection *f'*, which engages in a straight slot *i*, formed longitudinally in a casing *k*, arranged in the holder. If the pencil-case thus formed, which in Fig. 1 is shown open ready for use, is required to be closed into its non-working condition, as shown in Fig. 3, the pull-out case *f* is pushed into the holder *a*. By this movement, in consequence of the pin *g* engaging in the slot *h* at its spiral end, the threaded case *e* of the English or ever-point guide device is first rotated, thereby causing the lead or pencil to be drawn inward. On the pull-out case *f* being pushed farther forward the pin *g* slides in the straight part *h''* of the guide-slot and no movement of the lead takes place. On drawing out the case *f* the movement hereinbefore described is repeated in the reverse direction—that is to say, only an extension of the holder is first produced—and on the case *f* being farther drawn out the pencil or lead *s* is protruded into a position for use. In order to allow of the lead being moved in or out of the hollow point *a'* independently of the pulling out of the case *f*, so that the period of utility of the lead may be lengthened, the casing *k*, provided with the guide-slot *i*, may be made revoluble in the holder, so that the lead may be moved in or out by directly turning the case *f*, which will carry with it the pin *g*.

I declare that what I claim is—

1. In a pencil case, the combination with an "ever point" guide device, of a pull-out case having a slot partly straight and partly spiral in which slot engages a stud or pin fixed to the revoluble case of the "ever point" device, whereby on the pull-out case being moved in or out, the pencil case is shortened or lengthened and on the movement being continued, the lead is drawn in or protruded from the hollow point substantially as set forth.

2. A pencil case comprising an "ever point" guide device having a stud or pin at the rear end of its operating case, a pull-out case having a slot partly straight and partly spiral, the said case being adapted to slide over the "ever point" device with its slot engaging

with the pin on its rear end, a casing surrounding the "ever point" device and adapted to receive the pull-out case in its interior, the said casing having a longitudinal guide
5 slot to receive a projection on the pull-out case in order to hold the latter against rotation relatively to the casing and to prevent it falling or being withdrawn entirely out of the casing and a holder having a hollow point,
10 in combination, substantially as set forth.

3. A pencil case comprising an "ever point" guide device having a stud or pin at the rear end of its operating case, a pull-out case having a slot partly straight and partly spiral,
15 the said case being adapted to slide over the "ever point" device with its slot engaging

with the pin on its rear end, a casing surrounding the "ever point" device and adapted to receive the pull-out case in its interior, the said casing having a longitudinal guide
20 slot to receive a projection on the pull-out case and being revoluble relatively to the holder and a holder having a hollow point, in combination, substantially as set forth.

In testimony whereof I have signed my
25 name to this specification in the presence of two subscribing witnesses.

OSKAR HÄRPFER.

Witnesses:

ANDREW STICY,
OSCAR BOCK.