

1,028,228.

Adolf Bernhardt
geb. Aug.

Vincent Lampel

UNITED STATES PATENT OFFICE.

VINCENZ LAMPEL, OF LEIPA, AUSTRIA-HUNGARY.

COMBINED DRAWING-COMPASSES AND PENCIL-CASE.

1,028,228.

Specification of Letters Patent.

Patented June 4, 1912.

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To all whom it may concern:

Be it known that I, VINCENZ LAMPEL, merchant, a subject of the Emperor of Austria-Hungary, and residing at Leipa, Bohemia, Austria-Hungary, have invented certain new and useful Improvements in Combined Drawing-Compasses and Pencil-Cases, of which the following is a specification.

The present invention relates to a drawing instrument which is adapted to serve both as a pair of compasses and as an ordinary pencil case.

The pencil case is formed by the closed up legs of the compasses and the pencil is capable of being retracted into the case so that the instrument can be conveniently carried in the pocket.

The invention is illustrated in the accompanying drawings, Figure 1 representing a side view of the instrument with its parts in position for being carried in the pocket, Fig. 2, a corresponding side view of the same used as pencil holder, Fig. 3, a corresponding side view of the same used as a pair of compasses, and Fig. 4, a side view of a cap used for maintaining the legs in closed position.

The instrument is composed of two compass-legs *m* and *n* which are hinged to one another at *i*, both legs being made of sheet metal and of semi-circular cross section so that a hollow cylinder is formed when they are closed up. Near the hinge *i* a screw thread *p* is formed externally on the legs for the reception of a closing cap *d* which has a corresponding screw thread and which is applied to the legs when the instrument is to be used as a pencil case. The leg *m* is somewhat extended beyond the leg *n*, such extension consisting of a ring which completes the cylinder when the legs are closed. The leg *n* has a slidable extension *l* which is also of semi-circular cross-section and which is fitted in the hollow of the leg, a longitudinal slot *e* being provided in the latter in which a headed pin *f* is guided being connected to the part *l* and adapted to prevent any rotation of the latter. The extension *l* tapers toward its lower end to form a compass point. Lateral notches *g*, *g*¹ and *g*² are made in the leg *n* along the slot *e* in which the pin *f* may be engaged for fixing the extension *l* in various positions according to the desired length of the compass leg. The pencil is fitted in a sleeve which is adapted to slide inside the cylinder formed

by the closed compass legs. This sleeve is connected by means of a pin to a ring *a* adapted to slide on the outside of the cylinder, the connecting pin being guided in a longitudinal slot *o* which is formed owing to the imperfect closing of the parts *m* *n* at one side. Two lateral notches *b* and *c* are made in the leg *n* at the lower extremity of the slot *o* in which the connecting pin of the ring *a* may be engaged for securing the pencil in two positions. When engaging the notch *b*, as shown in Fig. 2, the ring *a* also serves to hold the parts *m* and *n* together, the instrument being in this case used as pencil holder. The notch *c* is situated in the cylindrical extension of the leg *m*, so that, when the sleeve *a* is in engagement with said notch, as shown in Fig. 3, the leg *n* is free to turn on its hinge and the instrument can be used as a pair of compasses. In the latter position, the part *l* is adjusted by means of the pin *f* and notches *g*, *g*¹, *g*², so as to correspond with the length of the pencil.

When it is desired to convert the compasses into a pencil case, the part *l* is slid up under the part *n* which is thereupon closed on the part *m*, the cap *d* being then screwed on the closed up parts as shown in Fig. 2. In this position the instrument has the form of an ordinary pencil case in which the pencil may be retracted, as shown in Fig. 1, both pencil and compass point being protected in this position so that the instrument can be conveniently carried in a pocket.

The cap *d* may be used as a holder for a piece of india-rubber *k* (Fig. 4) which is fitted in a separate sleeve slidably arranged in the cap. Said sleeve is connected, through a slot, to an external ring *h* by means of which the rubber may be retracted into the cap, when the latter is to be screwed on the pencil case.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:—

A combined drawing compasses and pencil case, comprising two compass-legs of different lengths and semi-circular cross section hinged together and formed with external screw threads near to the hinge, an extension of semi-circular cross section slidably arranged on the shorter leg and fitted with a locking pin guided in a notched longitudinal slot of said leg, a ring adapted to embrace said legs and slide

thereon, a sleeve fitted with a pencil and
connected to said ring by a pin and being
adapted to slide inside said compass-legs
when in a closed position, a notched slot
5 formed by said legs when in closed posi-
tion for guiding said pin, a closing cap fitted
with internal screw threads and adapted to
be applied to said legs when said extension
is retracted in the hollow thereof and legs
10 are in closed position, a sleeve slidably ar-
ranged in said cap and fitted with a piece

of india-rubber, and a ring connected to said
sleeve by means of a pin guided in a notched
longitudinal slot of the said sleeve, and
adapted to slide on said cap in unscrewed 15
position, substantially as set forth.

In testimony whereof, I affix my signature
in the presence of two witnesses.

VINCENZ LAMPEL.

Witnesses:

WILHELM ECKERT,
PAUL ARRAS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
