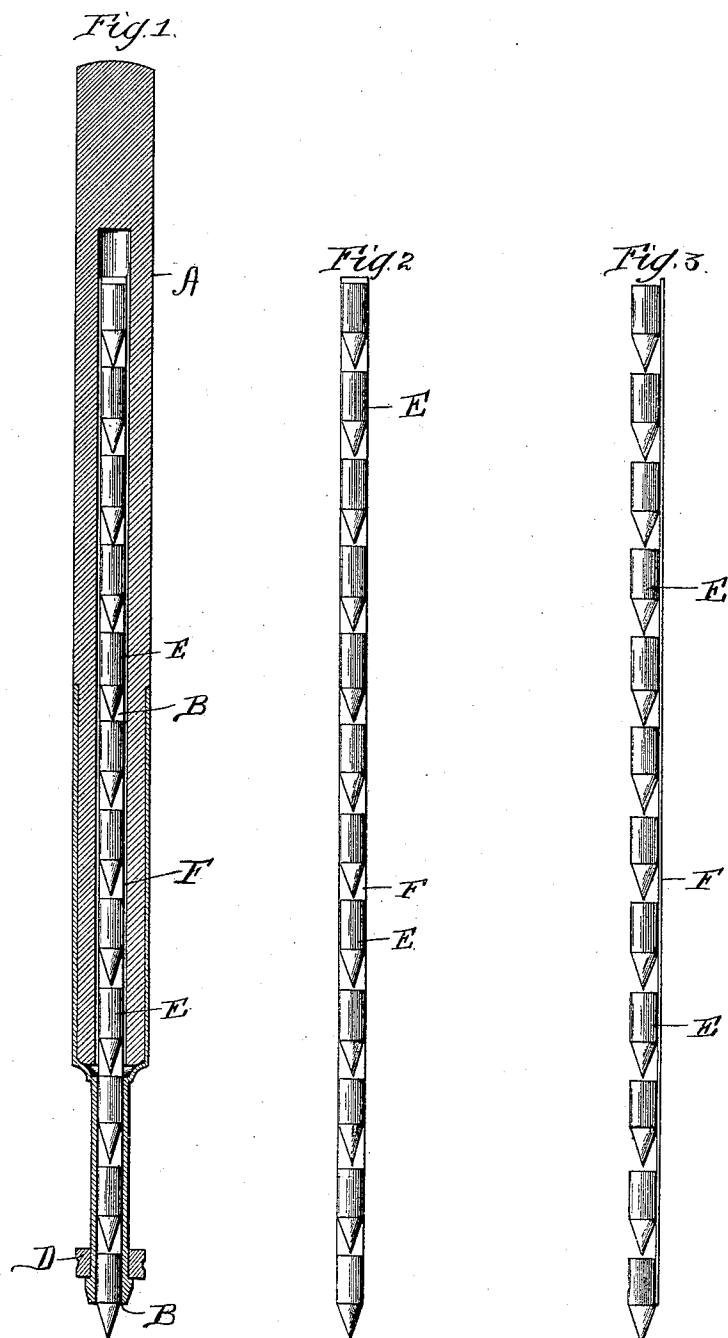


(No Model.)

A. J. ARTHUR.
LEAD PENCIL.

No. 493,465.

Patented Mar. 14, 1893.



Witnesses:
Wm. M. Rhein.
Lut. f. Alter.

Alexander J. Arthur, Inventor.
By Walter Brown

Atty.

UNITED STATES PATENT OFFICE.

ALEXANDER J. ARTHUR, OF FORT DODGE, IOWA.

LEAD-PENCIL.

SPECIFICATION forming part of Letters Patent No. 493,465, dated March 14, 1893.

Application filed September 17, 1892. Serial No. 446,225. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER J. ARTHUR, a citizen of the United States, residing at Fort Dodge, in the county of Webster and State of Iowa, have invented a new and useful Improvement in Lead-Pencils, of which the following is a specification.

My invention relates to an improved pencil and consists in the construction and arrangement as hereinafter described and more particularly pointed out the claims.

Like letters of reference are used to designate similar parts in the several figures of the drawings, in which:

Figure 1, represents a sectional view of my invention; and, Figs. 2 and 3 are detail views of the lead as used therein.

It is always desirable that the lead of a pencil be nicely pointed, for obvious reasons, but to obtain this result it has been necessary to use penknives and many forms of pencil sharpeners have been devised for this purpose, but both these means are more or less dirty and unsatisfactory. To dispense with this dirt, and secure at all times a perfectly pointed pencil I have devised the construction illustrated in which:

A designates the pencil, or rather the holder for the lead which is to be inserted in the customary opening in said holder, designated by the letter B. The lower end of such holder is divided or split, and the ends thereof are held together by a sliding collar in the customary and usual manner. The said collar is designated by the letter D.

The lead which I provide for my pencil, and which is best shown in Figs. 2 and 3 of the drawings, consists of a series of pointed pieces of lead, E, mounted upon or glued to a strip of suitable material such as paper, cambric &c.

The operation of my invention is apparent from the foregoing description. The points of lead having been mounted on the strip of material used for this purpose, the whole is passed into the tube or opening B in the customary manner. Now when it is desired to use the pencil, the collar D is slid away from the end of the pencil, the lead is allowed to protrude from the opening, and then the collar D is moved forward to its original position, whereby the lead is tightly clamped in place.

Of course it is evident that there may be numerous changes and modifications in my invention without departing from the spirit thereof, and therefore I do not desire to limit myself to the exact construction shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A new article of manufacture, a pencil consisting of a holder provided with a tube and having movably located therein a series of two or more leads, mounted upon a thin strip of suitable material; as and for the purpose set forth.

2. In a pencil the combination of the holder, having a tube therein and provided with a sliding collar at its lower end; with two or more pieces of lead pointed at their forward end, and mounted upon a thin strip of suitable material; substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two witnesses.

ALEXANDER J. ARTHUR.

Witnesses:

V. A. BLOMGREN,
F. E. HUMPHREYS.