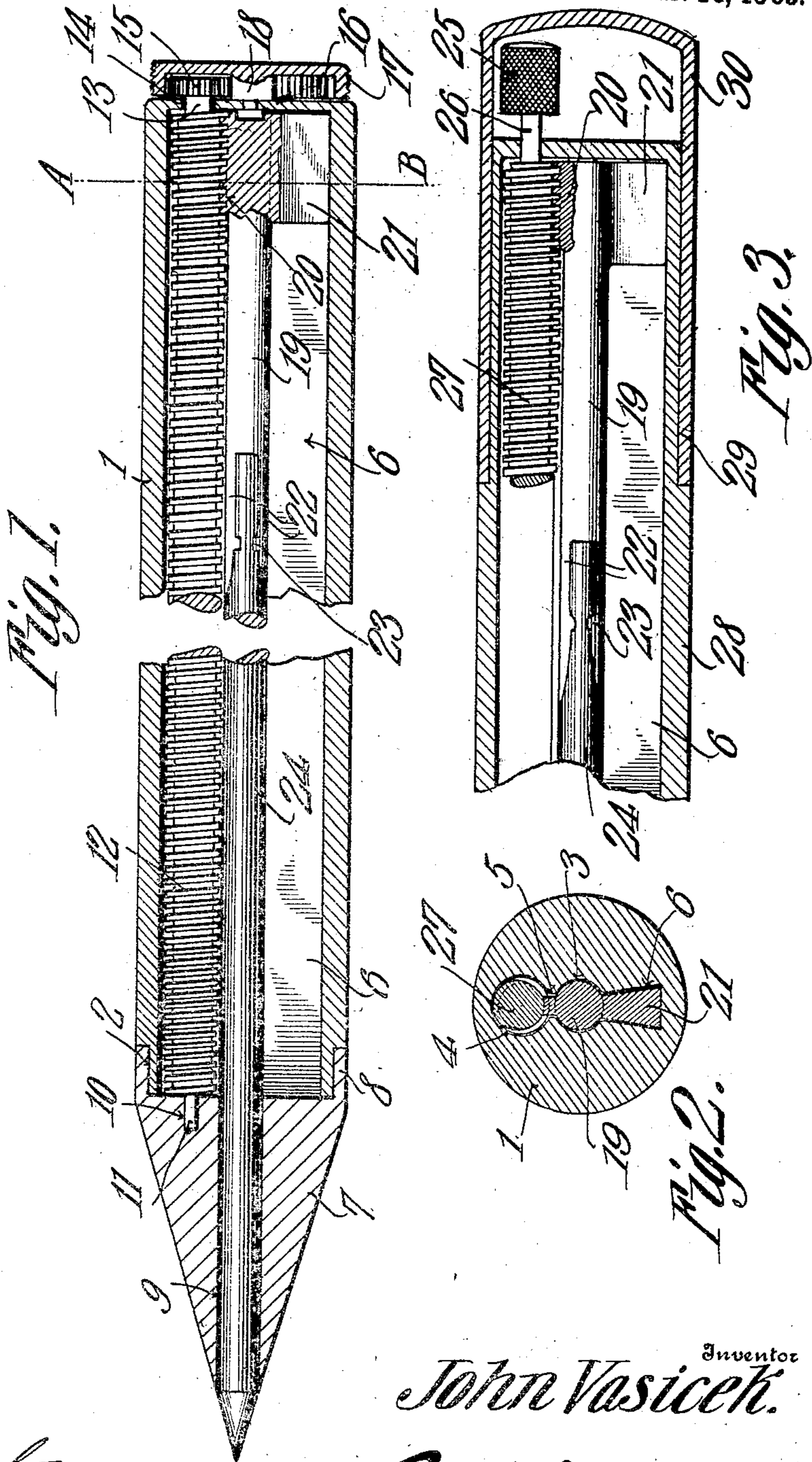


J. VASICEK.  
PENCIL.

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Witnesses

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# UNITED STATES PATENT OFFICE

JOHN VASICEK, OF LAGRANGE, TEXAS.

## PENCIL.

No. 915,130.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, JOHN VASICEK, a citizen of the United States, residing at LAGRANGE, in the county of Fayette and State of Texas, have invented a new and useful Pencil, of which the following is a specification.

This invention relates to lead pencils and its object is to provide a simple and durable device of this character having adjustable means for holding a lead so that the same can be conveniently adjusted beyond the end of the body of the pencil whenever it becomes worn or broken at the point.

Another object is to provide a device of this character the parts of which can be readily assembled.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a central longitudinal section through a pencil constructed in accordance with the present improvements, the stem being shown on an enlarged scale with the middle portion removed. Fig. 2 is a section on line A—B, Fig. 1. Fig. 3 is a longitudinal section through the butt end of a modified form of pencil.

Referring to the figures by characters of reference, 1 designates a pencil body, the same being preferably reduced annularly at one end as indicated at 2. This body has a central cylindrical bore 3 at one side of which is arranged a longitudinal bore 4 communicating with the central bore 3 through a slot 5. An angular passage 6 is formed longitudinally within the body diametrically opposite the bore 4 and opens into the central bore 3. This passage constitutes a guide way as hereinafter set forth. A conical cap 7 having a flange 8 at one end is arranged at one end of the body 1 so that said flange 8 will frictionally engage the reduced end 2 of the body. This cap has a central bore 9 designed to register with the central bore 3 and a socket 10 is formed within the cap and constitutes a bearing for a trunnion 11 formed at one end of a feed screw 12. This feed screw extends longitudinally within and throughout the length of the bore 4 and is designed to rotate therein, there being a

trunnion 13 extending from the screw and journaled within a reduced opening 14 formed in the butt end of the pencil. A gear 15 is secured to the trunnion 13 and meshes with a gear 16 formed within a cap 17. This cap has a central stud 18 journaled within the middle portion of the butt end of the pencil. The outer face of said cap may be milled or otherwise finished so that the same can be conveniently rotated to actuate gear 15 and screw 12. A holder 19 is mounted to reciprocate within the bore 3 and has a rack 20 extending therefrom and into slot 5, said rack being in mesh with screw 12. A guide head 21 also extends from the holder 19 and is mounted to slide within the guide passage 6. Oppositely disposed flexible jaws 22 are formed at one end of the holder 19 and have inwardly extending projections 23. These jaws are designed to fit upon opposite faces of the reduced end of a lead 24 the diameter of which is such as to permit the same to readily slide within the central bore 3. The reduced end of the lead is shaped preferably as indicated in Fig. 1 so as to permit jaws 22 and the extensions 23 to fit snugly thereupon.

When it is desired to feed the lead 24 outward through cap 7 the cap 17 is rotated and the gears will therefore cause the screw 12 to revolve and actuate the rack 20. Holder 19 will therefore be slid longitudinally within bore 3, it being held against rotation by the rack 20 and also by the guide head 21. Instead of providing the cap 17 and gears 15 and 16 a milled head 25 may be connected to the neck 26 of a screw 27 as shown in Fig. 3. With the construction the butt end of the body 29 is preferably reduced as shown at 29 so as to permit a guard cap 30 to be slid over the end of the body and thus conceal the head 25 when not in use.

It is to be understood that a pencil such as herein described can be conveniently manufactured, it being designed to form the body of hard rubber or similar material which can be conveniently molded.

What is claimed is:

1. The combination with a body having parallel communicating bores therein; of a feed screw mounted to rotate in one of the bores, a rack engaged by the screw and mounted to slide within the other bore, and a marker engaging device movable with the rack and within the last mentioned bore.

2. The combination with a body having parallel longitudinally communicating bores

therein; of a holder slidable within one of the bores, a rack thereon, and a feed screw mounted to rotate within the other bore and engaging the rack.

5 3. The combination with a body having parallel longitudinally communicating bores; of a holder mounted to slide within one of the bores, a rack thereon, a feed screw mounted to rotate within the other bore and engaging  
10 the rack, and means upon one end of the body for rotating the screw.

4. The combination with a body having parallel communicating longitudinal bores, a cap detachably connected to one end of  
15 the body, a holder mounted to slide within one of the bores and into the cap, a rack upon the holder, and a feed screw in the other bore and engaging the rack.

20 5. The combination with a body having parallel communicating longitudinal bores, and a cap detachably mounted upon one end of the body and having a bore communicat-

ing with one of the longitudinal bores; of a holder mounted to slide within the last mentioned longitudinal bore, a rack upon the  
25 holder, and a feed screw within the other longitudinal bore and engaging the rack.

6. The combination with a body having parallel communicating longitudinal bores; of a holder mounted to slide within one of  
30 the bores, and a feed screw mounted to rotate in the other bore, means upon the holder for engaging the feed screw, a gear revoluble with the feed screw, and a cap mounted to rotate upon the body and meshing with  
35 and disposed to actuate the gear.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN VASICEK.

Witnesses:

LIND BALAS,  
J. L. HADUSEK.