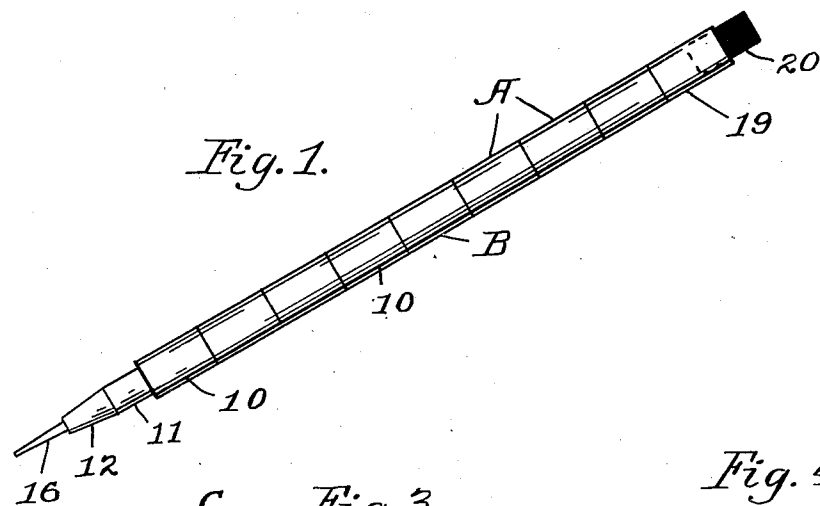
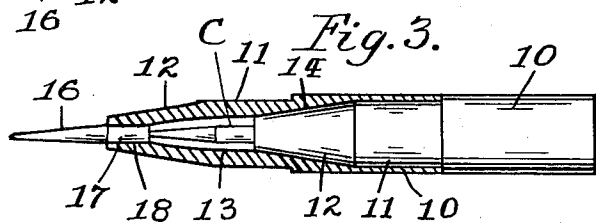
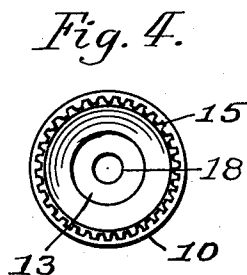
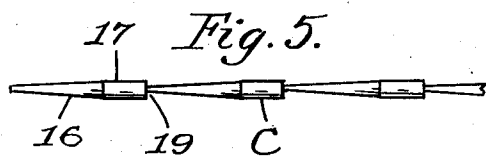
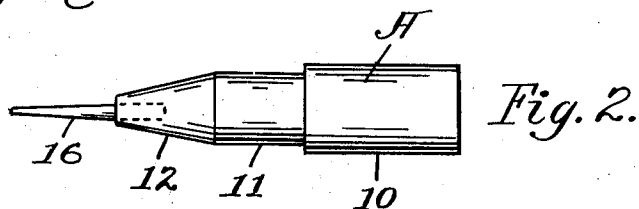


Jan. 10, 1950

J. W. MCPHEE
SECTIONAL PENCIL
Filed May 14, 1948

2,493,892



INVENTOR.
James W. McPhee,
BY: *J. S. Radbury*
Attorney.

UNITED STATES PATENT OFFICE

2,493,892

SECTIONAL PENCIL

James W. McPhee, Los Angeles, Calif.

Application May 14, 1948, Serial No. 27,120

3 Claims. (Cl. 120—83)

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My invention relates to improvements in pencils of that type having a barrel or body which is made in longitudinal sections normally coupled together and separable, each section containing a suitable marking point, and the marking points being normally contained in the barrel of the pencil when the sections are joined together, except at one end of the barrel at which the marking point is exposed longitudinally for use. The primary object of the invention is to provide sections which are normally joined and combined in such manner that they produce a firm and rigid barrel but at the same time the sections can be disconnected successively and removed as each marking point is worn away by use. Another object is the production of a pencil of the type stated in which the sections of the bodies containing the marking points are so constructed as to enable the use of plastic material, thereby improving design effect and being more cleanly in use. Another object is a construction by which the sections of the barrel are normally held together and are removable one at a time when each marking point is worn away in use.

With these and other objects in view my invention comprises features of construction and parts hereinafter described and claimed.

In the accompanying drawings forming part of this specification, Fig. 1 is a side elevational view of my improved pencil; Fig. 2 is a side elevation at enlarged scale of one complete section of my improved pencil; Fig. 3 is a longitudinal central section of a portion of my improved pencil showing two of the barrel sections joined together; Fig. 4 is an end view at enlarged scale taken when facing the sleeve end of one section of the pencil barrel; and Fig. 5 is a side elevation of a portion of the string of integral marking points which is applied in the barrel for holding a series of sections of the pencil barrel together and which are adapted to be applied in use for marking purposes.

My improved pencil has a longitudinal series of sections A, which are adapted to be assembled and joined longitudinally together in the form of a cylindrical or other shaped pencil barrel B. Each section has a cylindrical sleeve 10 and an integral plug extended from the sleeve having a cylindrical portion 11 on one end and a forwardly pointed conical end portion 12. The sleeve and plug of each barrel section are hollow and provide a chamber 13 therein entering the rearward end of each barrel section. The inner diameter of the sleeve 10 of each barrel section substan-

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tially corresponds with the outer diameter of the companion plug portion 11 on a rearwardly extending barrel section to provide a mated slip joint between each pair of sections. The cone 12 also corresponds with the conical inner surface of each barrel section to form a mating joint 14. The joints thus produced assist in holding the sections of the barrel rigidly together in longitudinal alignment.

The chamber 13 within each barrel section is extended forwardly so as to admit and tightly seat the plug of a companion barrel section. In this manner a series of sections B are adapted to be rigidly joined together and form a pencil barrel.

The inner surface of each sleeve 10 may be fluted, knurled or serrated at 15 (Fig. 4), to assist in producing a tight gripping engagement between the sleeve and cylindrical plug portion of each barrel section. This gripping tendency assists in normally preventing the barrel sections from turning about each other and working loose.

A series or string C (Fig. 5) of integral marking points 16 composed of graphite or other suitable marking material are secured longitudinally through the jointed barrel sections, when the latter are assembled in barrel form, one marking point being allotted to each barrel section and secured by its body 17 axially in a longitudinal passage 18 in each conical forward end portion 12. The forward end is integral with the rearward body portion of each marking point in advance thereof and thus produces a weakened node 19 (Fig. 5) so that the series of points which are integral are adapted to be severed at a weakened node or junction when each barrel section is twisted and forced apart by the application of sufficient force. The body 17 of each point is secured by the application of suitable adhesive in the joint between the body of each marking point and the wall of the passage 18 in each barrel section. In this manner through the frictional engagement between the plugs and the sleeves and conical seats of the barrel sections and the additional support rendered through fastening the unbroken series or string of marking points in the conical ends or cones 12, the sections B are adapted to form a rigid pencil barrel and the sections of the barrel are adapted to be severed and removed as fast as each point is worn away in use.

The pencil thus provided is favorable for the use of plastic material in its construction, said material supplying means which is not only at-

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tractive in appearance but is sanitary and cleanly in use.

The rear-most barrel section 19 may be provided with an eraser 20 which is secured at one end.

In accordance with the patent statutes, I have described the principles of operation of my invention, together with the construction thereof which I now consider to represent the best embodiment thereof, but I desire to have it understood that the construction is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the spirit of the invention and the scope of the following claims.

I claim:

1. A pencil comprising a barrel having a longitudinal series of substantially similar sections, each barrel section having a cylindrical body formed with a longitudinally disposed socket in one end and a corresponding plug on its opposite end, said sections being removably joined and mated together by the insertion of their plugs in said sockets, and a string of integral marking points, each point being rigidly secured in and projecting from the forward end portion of one of said plugs when said sections are joined and said string of points serving to normally assist in holding said sections assembled longitudinally and providing a weakened frangible node at the tip end of each point so that each barrel section may be severed from an adjacent section.

2. A pencil comprising a barrel having a longitudinal series of marking point sections successively removable as each point is worn away in

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use, each section having a cylindrical hollow body on its rearward end and a plug on its forward end, said plug having a tapering forward portion and said sections being normally joined by slip joints between the plug on one barrel section being inserted coaxially in the sleeve of a companion barrel section to produce an extended barrel, each sleeve and companion plug having a serrated surface therebetween whereby gripping effect is increased to assist in holding the barrel sections together, and a marking point on each barrel section, tightly socketed in each tapering end portion thereof and extended therefrom.

3. A pencil, comprising a barrel having a longitudinal series of marking point holding sections successively removable endwise as each marking point is worn away, each typical section having a sleeve and a plug extending longitudinally thereon, said plug being provided with a longitudinal body portion and a conical end portion and chambered longitudinally through the sleeve and into said plug, a corresponding barrel section having its cylindrical section and its conical portion seated in the corresponding sleeve and conical portion of the first named barrel section, whereby the sections are adapted to be rigidly and separably joined together longitudinally, and a series of marking points respectively seated in the outer end portions of the conical portions of said barrel sections and projecting forwardly therefrom.

JAMES W. McPHEE.

No references cited.