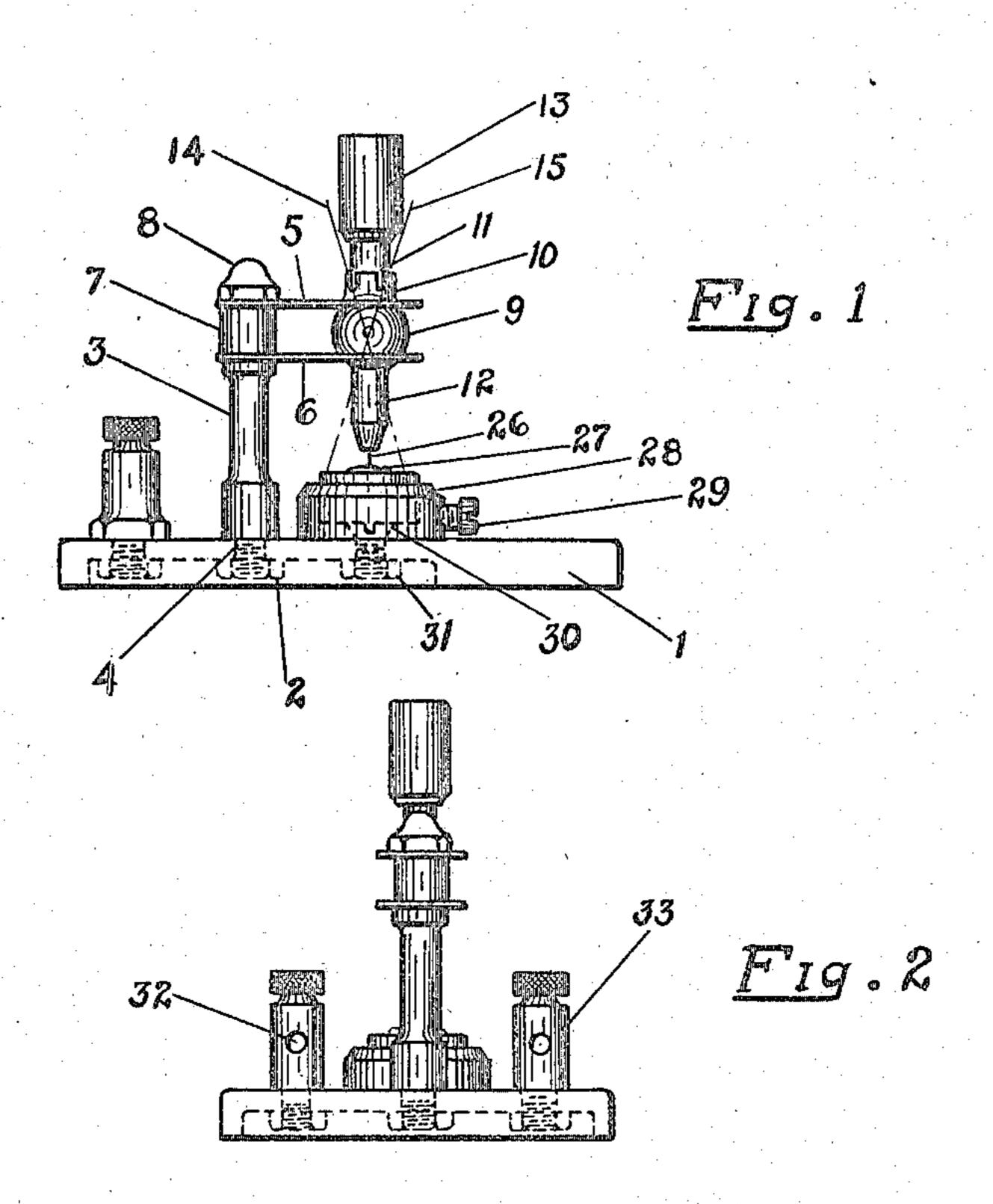
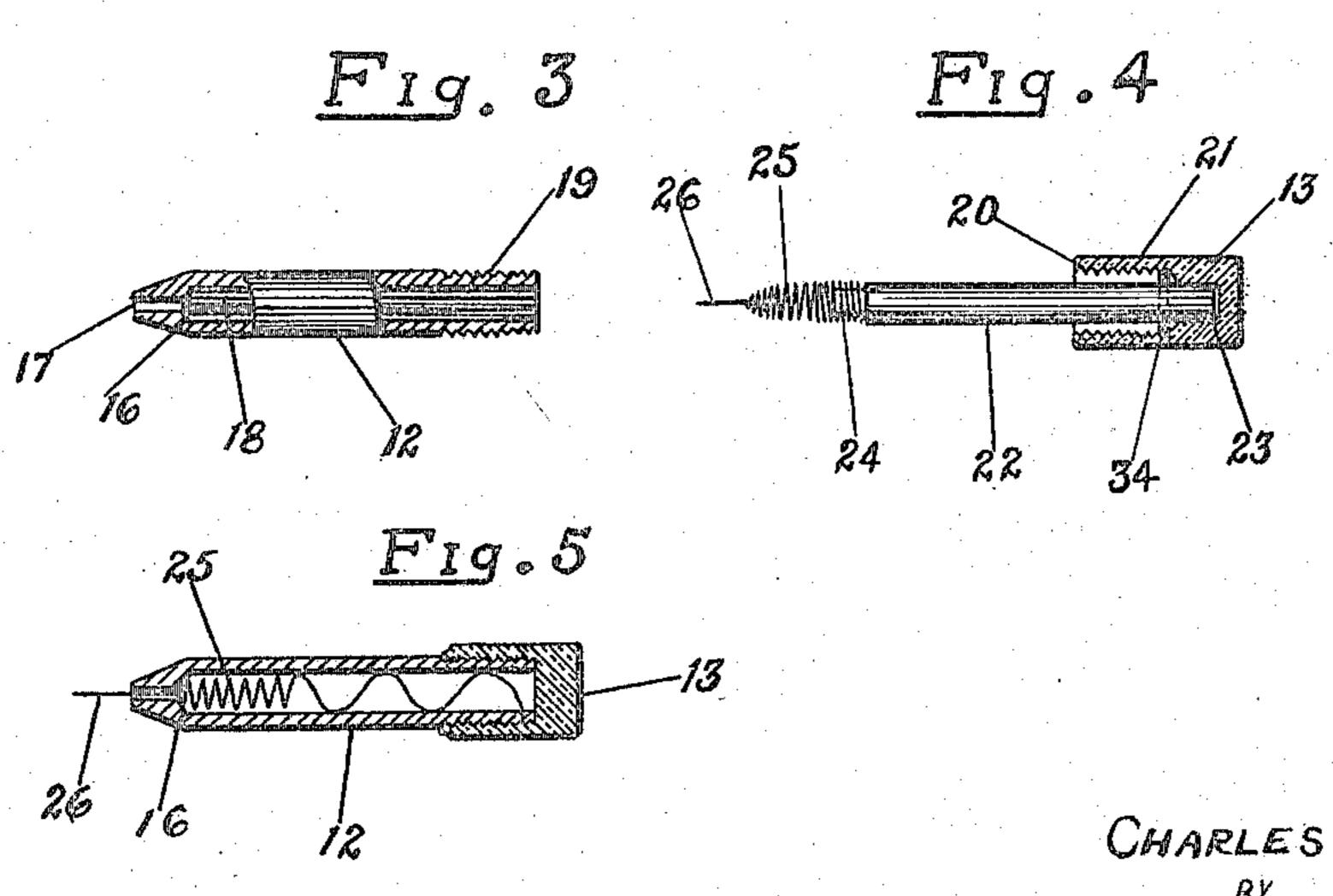
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DETECTOR FOR USE IN RADIOCIRCUITS





INVENTOR

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DETECTOR FOR USE IN RADIOCIRCUITS.

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To all whom it may concern:

5 of New York, have invented certain new and larged hollow portion 18 of the barrel 12. 10 reference marked thereon.

transmission.

15 provide a part for an improved form of or handle 13, being held therein in any suitholder constituting a detector wherein the able manner. Usually a press fit is sufficient parts are simple and inexpensive to manu- to produce the necessary result. A collar facture.

My invention will be best understood by

20 reference to the drawing, in which:

detector.

Figure 2 is an end view of Fig. 1.

25 of the parts constituting my improvement. spring has one end 26 extending outwardly parts shown in Fig. 3, and

holder.

In the drawings the like numbers refer 26 can engage a relatively stationary conto corresponding parts in the various views, tact 27 which I term as "working" to indi-Supported at the upper end of the standard in cooperation with the spring contact 25 40 8 which engages threads on the upper end of 33 are connected one to the standard 3 and the standard 3. The outer ends of the plates the other to the holder 29. or support arms 5 and 6 have holes therein The materials used for the contacts 25 to receive a cylindrical guide and support and 27 are such as to give the necessary recmember 9. Extending from the cylindrical tification of the radio currents travelling in 100 surface of the guide 9 is a projection 10 hav- the circuit in which the detector is wired. ing slots 11 therein so that the parts between There are many such combinations of matethe slots can be formed inwardly so that rials, but since these form no part of my the inside diameter of the projecting part invention they will not be specifically men-10 is somewhat smaller than the slidable tioned. Furthermore, since the holder, out- 105 member or barrel 12, the upper end of which side of the barrel and cooperating parts as carries a knob or handle 13, which is used shown in Figs. 3, 4 and 5, constitutes no to raise the barrel 12 up and down in the part of my invention, the details may be by the lines 14 and 15. As will be seen from chosen to show the same in connection with

form a nose 16. A restricted passage 17 ex-Be it known that I, Charles J. Everett, tends through the nose 16; that is to say, a citizen of the United States, residing at the passage 17 has a considerably greater New York, in the county of New York, State length than diameter and opens into the en- 60 useful Improvements in Detectors for Use The end of the barrel opposite the nose 16 in Radiocircuits, of which the following is a is threaded as at 19 to receive threads 20 description, reference being had to the ac- which are on the internal part of the skirt companying drawing and to the figures of 21 of the knob or handle 13. It will be un- 65 derstood of course that the position of the This invention relates to detecting means threads may be reversed on the two parts. for receiving communication by wireless or the knob 13 may be held to the barrel 12 in any other manner. A stem 22 is seated The principal object of my invention is to in a passage 23 in the upper end of the knob 70 34 pressed or otherwise fastened to the stem 22 is used to complete the contact between 75 the stem and the barrel 12. The lower end Figure 1 is a side elevation of a complete of the stem 22 is reduced in diameter as at 24 and a spring 25 is attached thereto in any suitable manner as by reduced end con-Figure 3 is a part sectional view of one volutions which grip the portion 24. The 80 Figure 4 is a part cooperating with the so that when the parts shown in Fig. 4 are assembled in the barrel (Fig. 3), the end 26 Figure 5 is a modified form of contact will extend through the passage 17, being guided by the passageway so that the end 85 1 being a base preferably of insulating ma- cate that it is a piece of detector crystal or terial. Fastened to the base 1 as by screw an equivalent thereto of the kind which threads 4 and nut 2 is a metal standard 3. will produce the required result when used 90 3 are plates 5 and 6, which extend laterally and end 26. The "working" contact 27 is therefrom in substantially parallel relation-held in a holder 28 as by screw 29. The ship, the plates 5 and 6 being spaced apart holder 28 being mounted to the base 1 by by a spacer 7 and held in position by a nut screw 30 and nut 31. Binding posts 32 and 95

guide 9 or to swivel the guide about in any materially different from that shown, but direction through a given angle as indicated in order to illustrate my improvement I have 110 Fig. 3, the barrel 12 has one end tapered to the holder described and claimed in the application of Edward B. Nowosielski, Se-

rial No. 558,181, filed May 3, 1922.

in which the spring 25 is operatively held 5 within the barrel 12 without the use of the stem 22. However in both forms shown, the barrel and carrying a spring having an exspring 25 is constructed as to size and convolutions in such a manner as to give a deli- by said restricted opening to engage said cate yet firm touch when the knob or handle contact surface. 10 13 is operated to control the movement of 3. In a detector having a contact surface, the barrel 12 whereby contact is made be- a cooperating member comprising a barrel tween the end 26 and the various parts of the having a restricted opening at one end, and

crytsal 27.

from the guide member which supports it, surface. and carried in one's pocket without distort- 4. In a detector having a contact surface,

claims.

Having thus described my invention, what 30 I claim is:

1. In a detector having a contact surening to the end of the barrel opposite the restricted opening, and a spring contact member carried by the stem having an end projecting through the restricted opening to

40 engage said contact surface.

2. In a detector having a contact surface,

a co-operating member comprising a barrel having a restricted opening at one end, said In Fig. 5 I have shown a modified form opening being greater in length than in diameter for guiding the end of a contact, a 45 stem supported on the opposite end of the tended part projecting through and guided

threads on the other end, a stem, a knob or It will be apparent that by my improved handle fixed to the end of the stem and 55 15 manner of mounting the spring contact, it is having a skirt threaded to engage the protected from injury due to careless ma- threads on the barrel to hold the stem in nipulation, accidents or other causes, which place within the barrel, a spring having troubles are apt to befall a spring contact one end operatively secured to the stem and that is exposed. My construction is such the other end extending through said open- 60 that the barrel 12 may be readily withdrawn ing in the barrel to engage said contact

ing or otherwise injuring the contact spring. a cooperating member comprising a barrel It will be further apparent that various having one end tapered to form a nose and 65 25 changes may be made in the details of my a passage through the nose, a stem posiinvention without departing from the spirit tioned in and attached to the barrel, a spring of the same and the scope of the appended having an end extending through said passage to engage said contact surface, said spring being held in working position in the 70

barrel by said stem.

5. In a detector having a contact surface, face, a cooperating member comprising a a cooperating member comprising a parrel barrel having a restricted opening at one having a reduced passage in one end, a knob end, a stem, a knob or handle on the stem, or handle on the other end for moving the 75 35 said knob or handle having means for fast-barrel, a stem operatively connected to the knob or handle, a spring held by the stem in operative position within the barrel and having an end projecting through said passage to engage said contact surface.

In testimony whereof, I affix my signature. act surface. CHARLES J. EVERETT.