

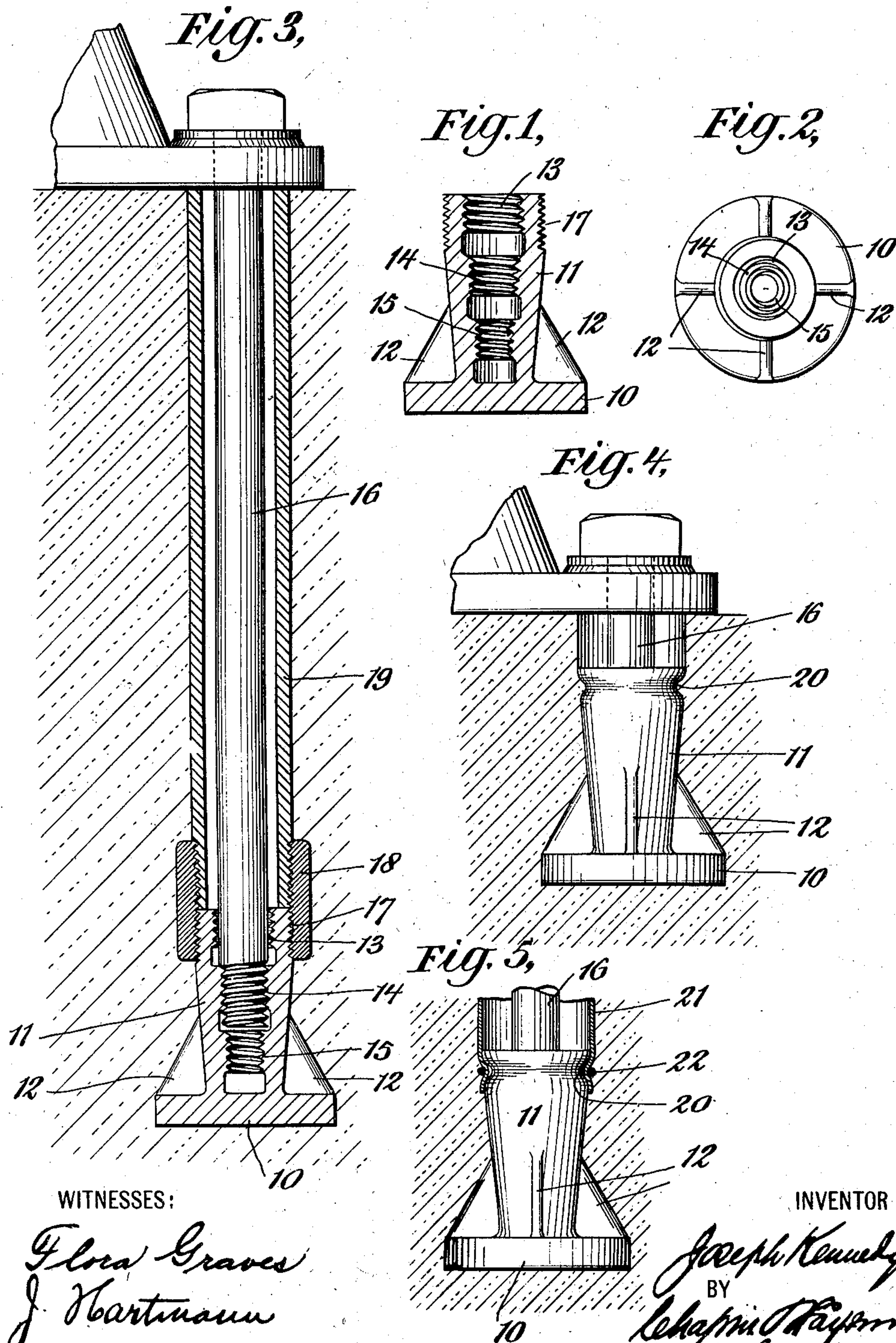
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To all whom it may concern:

Be it known that I, JOSEPH KENNEDY, a citizen of the United States of America, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Anchors, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

10 My invention relates to anchors, and particularly to an improved form of bolt anchor adapted to be embedded in concrete and to receive the threaded ends of holding or retaining bolts.

15 The bolt anchor comprises a base, a cylindrical hub uprising therefrom, and webs connecting the hub with the base, the hub being formed with a bore comprising a plurality of threaded portions of progressively reduced diameter whereby the device is adapted for use with different sized bolts, the said hub being further provided with means near its upper end to which an extension shell may be secured. The extending base forms 20 a powerful anchorage and prevents the device from being withdrawn under any pressure that may be applied to the bolt, while the wings or ribs serve to prevent the device from being turned in the concrete. The 25 whole constitutes an exceedingly inexpensive and efficient device for the purpose specified.

In order that my invention may be fully understood, I will now proceed to describe 35 an embodiment thereof, having reference to the accompanying drawings illustrating the same, and will then point out the novel features in claims.

In the drawings: Figure 1 is a view in 40 central vertical section through an anchor constructed in accordance with my invention. Fig. 2 is a top view thereof. Fig. 3 is a view in central vertical section through the anchor, showing the same employed in 45 use and having an extension shell attached thereto. Fig. 4 is a view in side elevation of a slightly modified form of the anchor showing the same in use. Fig. 5 is a similar view showing a portion of an extension shell 50 attached thereto.

The anchor comprises a base 10 conveniently of cylindrical form, a hub 11 uprising from the central portion thereof, and wings or webs 12 which connect the said hub with

the portion of the base 10 which extends 55 outward therefrom.

The hub is provided with an interior bore having a plurality of screw threaded portions 13—14—15 of progressively reduced diameter. The reduction is such that the 60 major diameter of a smaller threaded portion is just less than the minor diameter of the preceding threaded portion, whereby a bolt having a threaded portion fitting the threads 14 will clear the threads 13 when 65 being inserted, and similarly, a bolt having a threaded portion fitted to the threads 15 will clear the threads 14 when being inserted. This will be understood by an inspection of Fig. 3 in which a bolt 16 is shown with a 70 lower threaded portion fitted to the threads 14, the shank of the bolt just clearing the threaded portion 13. The several screw-threaded portions 13, 14, and 15 are longitudinally spaced apart as shown, the space 75 to the rear of each said screw-threaded portion being of a diameter not less than the greatest diameter of the said screw-threaded portion at the base of the threads thereof. The hub 11 is provided near its upper end 80 with means whereby it may have an extension shell secured thereto.

In the form shown in Figs. 1, 2 and 3, the upper portion of the hub 11 is exteriorly threaded as is shown at 17, to receive a socket 85 18 by which an extension shell 19 may be secured thereto.

In the form shown in Figs. 4 and 5 the upper end of the hub 11 is shown as provided with an annular recessed portion 20 and a 90 thin tubular metal or tapered shell 21 is adapted to be secured thereto by means of a wire tie 22 or similar fastening device, as will be well understood by reference to Fig. 5.

In use the anchor is embedded in the concrete while the same is being cast in position, an extension shell of the required length being added thereto if the anchor is to be disposed at some distance from the surface as is shown at Fig. 3. Thereafter a holding 100 down bolt 16 of the required size is inserted into position and bolted firmly into place.

A concrete anchor of this character is especially adapted for holding foundation bolts in position. Such an anchor will stand 105 substantially any strain that can be applied thereto without being dislodged or rotated, while it is of an exceedingly convenient and

compact form and is adapted for use with bolts of various diameters. Being made in one piece there is no assembling required and the danger of crossing threads when the bolt is inserted, is entirely obviated. I have shown three sets of screw threads as being a convenient number, but it will, of course, be understood that I may employ a greater or less number as may be desired.

10 What I claim is:

1. As an article of manufacture a bolt anchor comprising a single integral metallic structure composed of a base, a substantially cylindrical hub uprising from the central portion thereof, and webs connecting the said hub with the said base, the said hub having an interior bore comprising a plurality of screw threaded portions of progressively reduced diameter.

20 2. As an article of manufacture a bolt anchor comprising a single integral metallic structure composed of a base, a substantially cylindrical hub uprising from the central portion thereof, and webs connecting the said hub with the said base, the said hub having an interior bore comprising a plurality of screw

threaded portions of progressively reduced diameter and being provided at its upper end with means whereby an extension shell may be secured thereto.

3. As an article of manufacture a bolt anchor comprising a single integral metallic structure composed of a base, a substantially cylindrical hub uprising therefrom, and webs connecting the said hub with the said base, the said hub having an interior bore comprising a plurality of screw threaded portions of progressively reduced diameter, and being provided at its upper end with exterior threads by which an extension shell may be secured thereto.

4. As an article of manufacture, an anchor of the class described comprising a single integral metallic structure having an interior bore comprising a plurality of screw-threaded portions of progressively reduced diameter, the several said screw-threaded portions being longitudinally spaced apart.

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Witnesses:

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