May 14, 1929. J. V. DOLEZAL 1,712,876

WIRE THREADING BIT

Filed June 16, 1928

Fig. 1.

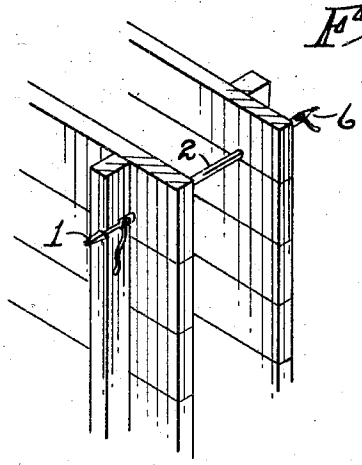


Fig. 2.

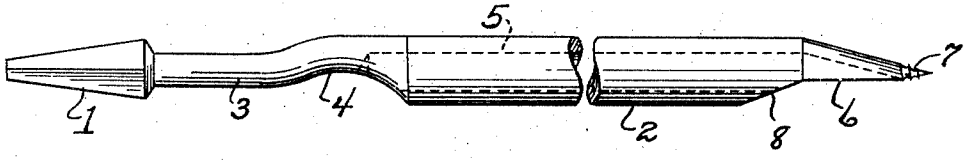


Fig. 3.

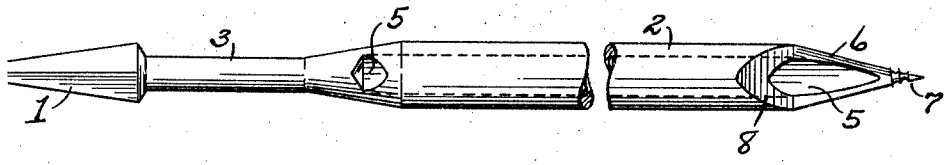
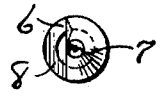


Fig. 4.



Fig. 5.



John V. Dolezal
INVENTOR

BY Victor J. Evans
ATTORNEY

WITNESS: John Donovan

Patented May 14, 1929. 1,712,876

UNITED STATES PATENT OFFICE.

JOHN V. DOLEZAL, OF BEEVILLE, TEXAS.

WIRE-THREADING BIT.

Application filed June 16, 1928. Serial No. 286,018.

This invention relates to bits, and the general object of the invention is to provide a bit that is primarily designed for boring aligned holes in the spaced portions of a concrete form and includes means for threading a tie wire through the openings, without removing the bit therefrom, with the result the tie wires for the form can be associated therewith in an easy and expeditious manner.

A further object of the invention is to provide a bit that can be used to an advantage for threading electric wires through the walls of buildings and the like.

A further object of the invention is to provide a bit of the character set forth, that is simple in construction, inexpensive to manufacture and efficient in operation and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a fragmentary perspective view illustrating my bit in use in drilling holes through a concrete form for threading tie wires therethrough.

Figure 2 is a view of the bit per se.

Figure 3 is a bottom plan view of Figure 2.

Figure 4 is a view of the shank end of the bit.

Figure 5 is a view of the other end.

While I have illustrated my bit in use for boring holes in concrete forms for threading tie wires therethrough, I want it understood that the bit can be used for any desired purpose where it is necessary to thread wires and the like through walls of buildings and other places.

The bit includes a tapered square cornered shank 1 which is adapted to be received in a brace or the like of any type, and the body of the bit which is indicated by the reference numeral 2 is cylindrical in formation as shown. The body is relatively larger than the neck 3 which is disposed between the shank 1 and body as best shown in Figure 2 of the drawings. The neck 3 is curved upon itself at its juncture with the body as at 4 for the purpose of providing an offset portion from which extends one end of a bore 5 formed through said body and terminating at the boring end of the bit, which is indicated by the reference numeral 6.

The boring end of the bit is formed with the usual screw threads 7 and tapers from its juncture with the body to said screw threads as best shown in Figure 2 of the drawings. The body at its juncture with the boring end is cut-away as at 8 and this cut-away portion merges into the bore 5 as well as the walls of said end 6 which are cut-away at an angle with respect to the walls of the cut-away portion of the body. The bore 5 continues through the boring end 6 and terminates adjacent the screw threads 7 thereof as best shown in Figure 3 of the drawings.

From the above description and disclosure of the drawings, it will be obvious that I have provided a bit that is primarily designed for threading wires through concrete forms, walls and the like, and when the holes are bored, the bit is retained in the holes and the wires are threaded through the bore 5 in a manner as clearly shown in Figure 1 of the drawings. The wire is then held and the bit removed, with the result the wire will be retained through the openings or holes bored.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:

A wire threading bit comprising a body, a neck including an offset portion formed with said body, a tapered boring end formed with said body and being cut away at an inclination, said body being cut away at an inclination with its cut away portion disposed at an angle to the cut away portion of the boring end and merging therein, the cut away portion being disposed in communication with a bore formed thru said body, said bore extending thru the offset portion whereby a wire can be readily threaded therethru, and a shank formed with said neck and being adapted to be received in a brace for operating said bit.

In testimony whereof I affix my signature.

JOHN V. DOLEZAL.