June 26, 1923. 1,460,035

L. A. NIELSEN

CONCRETE INSERT

Filed Nov. 9, 1920

Fig. 1

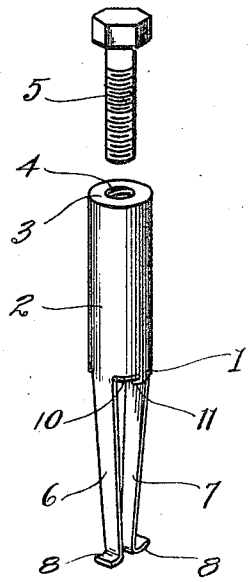
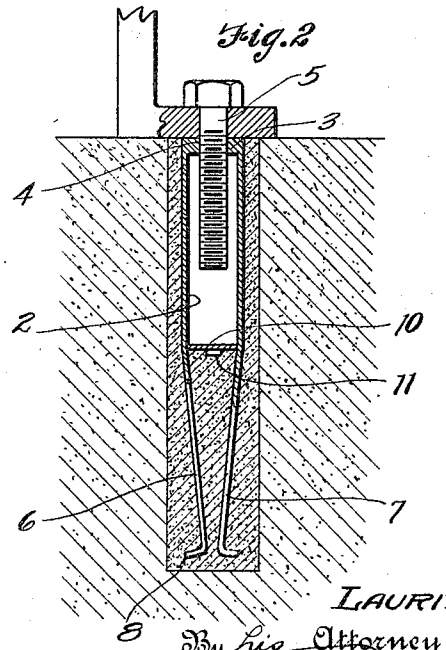


Fig. 2



Inventor
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By his Attorney
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UNITED STATES PATENT OFFICE.

LAURITS A. NIELSEN, OF SEATTLE, WASHINGTON.

CONCRETE INSERT.

Application filed November 9, 1920. Serial No. 422,856.

To all whom it may concern:

Be it known that I, LAURITS A. NIELSEN, a citizen of the United States, and resident of the city of Seattle, county of King, State of Washington, have invented certain new and useful Improvements in Concrete Inserts, of which the following is a specification.

This invention relates to improvements in concrete inserts, more particularly to inserts of that character applicable to concrete floors or the like for receiving anchor bolts whereby desks, stools or furniture may be secured or anchored in place.

The principal object of the invention is to provide an insert of the above character which will be relatively inexpensive to manufacture, which may be embedded permanently in a floor with its upper surface flush therewith to be unnoticeable when not in use and which will be efficient in serving the purpose for which it is intended.

In accomplishing this and other objects of the invention I have provided the improved details of construction, the preferred form of which is illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of a concrete insert and anchor bolt embodied by the present invention.

Figure 2 is a longitudinal sectional view of the insert imbedded in a concrete floor, with the anchor bolt threaded into the same and anchoring a member to the floor.

Referring more in detail to the drawings—

1 designates, as a whole, a concrete insert constructed according to the present invention. This, in its preferred form, consists of a tubular body portion 2, closed at its upper end by an integral wall 3 provided centrally with a threaded aperture 4 for receiving an anchor bolt, of the character indicated at 5, or any other desirable character.

Extending from the body portion of the tube at its lower end and from opposite sides, are anchor legs 6 and 7. These are inclined inwardly toward the axial line of the tube and at their lower ends have outturned feet 8, the ends of which lie substantially within the line of the tube surface.

The lower end of the tubular body is closed by means of a plate 10 which is held in place by means of ears 11 that extend from the wall of the tube and are bent to overlap the plate. The object of closing this end of the tube is to prevent concrete from entering the tube and interfering with the insertion of the bolt 5.

Assuming that the device is so constructed, it is used in the following manner: Where a desk, stool or the like is to be anchored to a concrete or similar floor, a hole of sufficient depth and diameter to receive the insert is drilled. The insert is then placed in the hole, with the apertured end flush with the floor surface and is embedded within a suitable plastic material such as neat cement, lead or other suitable material which will set quickly about the leg portions and will hold it rigidly and securely in place.

The object to be anchored is then moved into position and secured by extending the bolt 5 through the same and threading it into the aperture 4 in the tube end.

It is apparent that such a device could be easily and quickly placed, and would effectively serve the purpose for which it is intended.

It is further apparent that such a device could be manufactured in various shapes, sizes and proportions at a relatively small cost and that various changes in its construction could be made without departing from the spirit of the invention.

Having thus described my invention, what I claim as new therein and desire to secure by Letters-Patent, is:

A device of the class described, comprising a tubular body of the same diameter throughout its length having a threaded opening at its upper end and provided at its lower end with anchor legs formed integral with and continuing downwardly from opposite sides of the body in a converging manner, and provided at their ends with outturned feet; said legs and feet lying within the lines of the body portion, and an anchor bolt mounted within the threaded aperture.

Signed at Seattle, Washington, this 2nd day of November, 1920.

LAURITS A. NIELSEN.