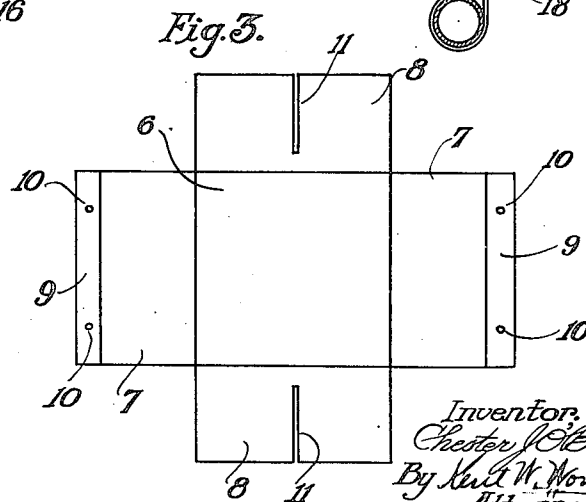
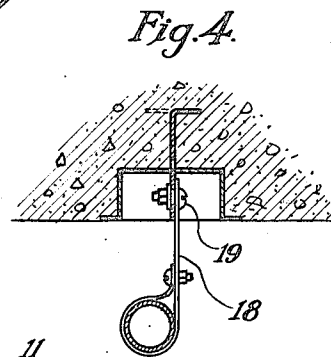
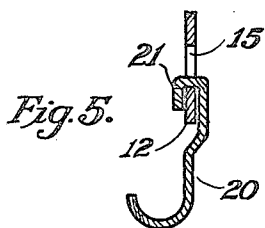
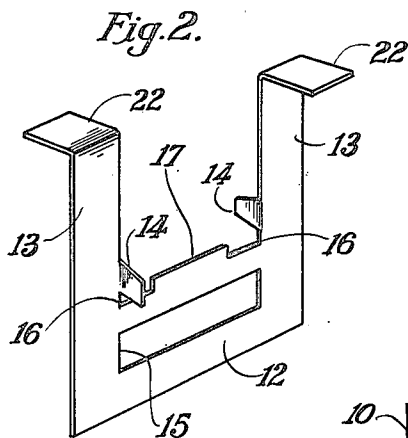
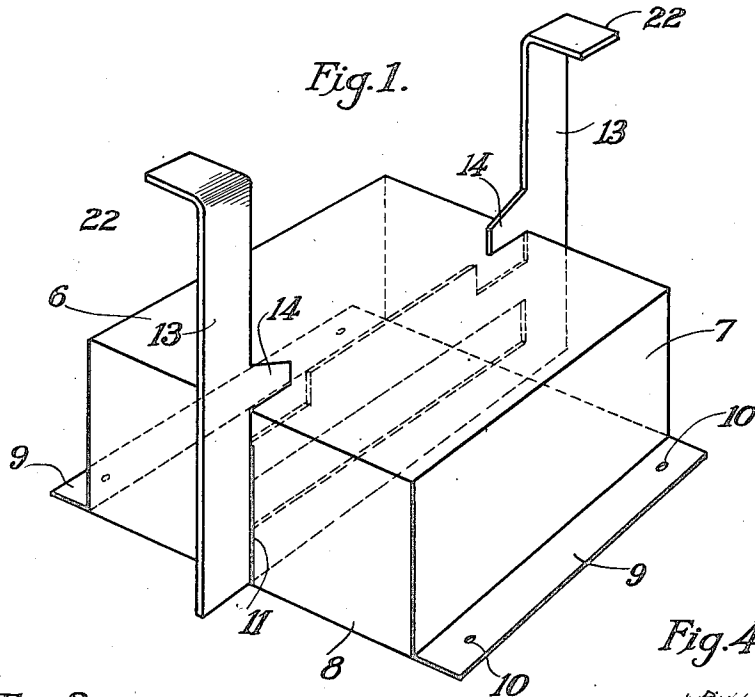


C. J. O'BRIEN.
 CONCRETE INSERT.
 APPLICATION FILED JUNE 3, 1920.

1,429,686.

Patented Sept. 19, 1922.



Inventor,
 Chester J. O'Brien
 By Kurt W. Wonnell
 Attorney.

UNITED STATES PATENT OFFICE.

CHESTER J. O'BRIEN, OF CHICAGO, ILLINOIS.

CONCRETE INSERT.

Application filed June 3, 1920. Serial No. 386,210.

To all whom it may concern:

Be it known that I, CHESTER J. O'BRIEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Concrete Insert, of which the following is a specification.

This invention relates to an insert for concrete work to provide a suitable anchorage to which pipes, fixtures and the like may be attached. The principal object of the invention is to provide a novel insert of this type which may be made entirely of sheet material, so that it is simple and inexpensive to manufacture, it is easy to place in position, and is effective and efficient in operation. The invention consists in the novel construction, combination and arrangement of the several parts.

In the accompanying drawing, Fig. 1 is a perspective of an insert constructed in accordance with the principles of the invention; Fig. 2 is a perspective of the supporting partition; Fig. 3 illustrates the shape of a blank of sheet material of which the insert box is made; Fig. 4 is a sectional view illustrating the application of the invention as a pipe hanger; and Fig. 5 is a sectional view showing a suspending hook attached to the insert.

The present invention comprises a construction which is designed and intended to be made entirely of sheet material so that it is comparatively simple not only to manufacture, but also to place in position, and to attach thereto any device or fixture which it is intended to support.

Referring now more particularly to the drawings, the box of the insert is preferably formed of a piece of sheet material having a central portion 6 with sides 7, and ends 8 of substantially the same width so that when bent together they form a rectangular box-like structure, the adjacent corners of which may be secured together in any suitable manner, if desired. At the outer edges of the sides 7 are flaps 9 having perforations 10 by means of which the box may be secured in the form in which the concrete is allowed to set. Each of the ends 8 is formed with a slot 11 extending from the edge thereof to a point adjacent the central portion 6 of the blank.

A partition 12 also made of sheet material slightly wider than the body of the box is formed with legs 13 spaced apart the proper

distance so that the box will slide between them, each having a bendable ear 14 extending inwardly which must be bent at right angles, as shown in Fig. 2, in order to press the box between the legs.

In applying the partition to the box, the lower portion of the partition will be engaged in the opposite slots 11 in the ends of the box, and when the partition fits properly in the slots the ears 14 are bent back in line with the legs over the top of the box, as shown in Fig. 1.

That part of the partition which is contained within the box is preferably formed with a rectangular opening 15 by means of which any desired fastening devices for suspending fixtures and the like may be secured to the partition. Below the ears 14 the partition is formed with a cutout portion 16 and the upper edge of the partition 17 between the legs is spaced substantially the thickness of the bottom of the box from the lower edges of these ears, so that when the partition is in place, the upper edge 17 will engage the inside of the box while the lower edges of the ears 14 will engage the outer face of the box thus holding the partition firmly in place. The spaces 16 are provided in order to form the ears 14 more accurately in stamping the partitions out of sheet material.

In using this device a hanger strip 18 may be attached to the partition through the opening 15 by means of a fastening bolt 19, as shown by Fig. 4, or a support 20 formed with a hook 21 may be engaged through the opening 15, as shown in Fig. 5, and is adjustable along the opening 15. Of course, many other fastening connections may be made, but no matter what fastening means is employed, the fastening device proper is very accessible and can be easily manipulated from either side of the partition, as clearly evident from Fig. 4, for considerable space is provided at each side of the box for this purpose. If the pipe is at right angles or transverse to the opening 15, it is obvious that the position of the pipe, as indicated in Fig. 4, may be laterally varied. The upper end of each leg 13 is usually bent at right angles thereto to form an anchoring extremity 22, the extremities being usually bent in opposite directions to form a better anchoring surface. With this construction it is obvious that when the partition is properly attached to the box it will not move

laterally to any appreciable extent because of the slots 11, and it will not move vertically or longitudinally because of the engagement of the ears 14 and the upper edge 5 17 which engages the inside of the box. The bent extremities of the legs 13 prevent its movement and form anchors therefor.

I claim:

1. A concrete insert comprising a box having 10 opposite slotted walls, and a partition fitting in the slots, with means for the connection of a hanger and having bendable parts engageable over the top of the box for holding the partition in the slots.
2. A concrete insert comprising an open 15 box with slots extending from the edges of opposite walls, a perforated partition slightly wider than the box and slidable into the slots, having anchoring portions 20 extending beyond the top of the box, with bendable ears for engaging the top of the box to prevent the disengagement of the partition therefrom.
3. In a concrete insert, a box of sheet material with an open top, and slots in the 25 edges of opposite walls, a partition wider than the box having legs between which the box is slidable for engaging the portion of the partition in the slots, the partition having an aperture inside the box and an intermediate portion engaging the inside of 30 the top of the box and bendable portions extending inwardly from the legs to engage the outside of the top of the box.
4. In a concrete insert, an open box with 35 opposite slotted sides, a partition seated in the slots and extending beyond the slots and beyond the top of the box, means provided on the partition for engaging opposite faces 40 of the top of the box to hold the partition in the slots, and an opening provided in the partition and located within the box for attachment of fixtures and fastening devices thereto.
5. In a concrete insert, a partition of sheet 45 material formed with a transverse per-

forated portion, and legs extending therefrom bent at right angles at their extremities, a box to enclose and cover the perforated portion of the partition, and bend- 50 able ears formed on the insides of the legs and foldable over the box to hold it in position on the partition.

6. The combination with a partition made of sheet material having a body portion 55 with an opening therein, and parallel legs extending therefrom with inwardly bendable ears adjacent the body portion, and with anchoring extremities, and a box with opposite slotted sides adapted to be inserted 60 between the legs and to enclose the perforated portion with the body of the partition seated in the slots, and ears being bendable over the top of the box to hold the partition in the slots. 65

7. The combination with a sheet metal box having opposite slotted ends, of a partition insertable in the slots, having legs extending beyond the top of the box and 70 formed with anchoring extremities, means in connection with the partition for locking the partition in the slots, the partition being formed with a transverse opening in the portion covered by the box, and a hanger engageable in the opening of the partition 75 and accessible from both sides of the partition in the box.

8. The combination with a sheet metal box having slotted opposite walls, of a partition insertable in the slots, having means for 80 attaching it to the box and having a longitudinal opening in the portion located in the box, and a hanger engageable in the opening and adjustable therein the full length of the opening. 85

9. A concrete insert comprising a box with the edges of opposite walls slotted, a partition insertable therein, with means to engage a hanger and means to hold the partition in the slots.

CHESTER J. O'BRIEN.