(No Model.)

C. H. LEVER.

ANCHOR BOLT.

No. 549,069. Patented Oct. 29, 1895.

Fig. 1,

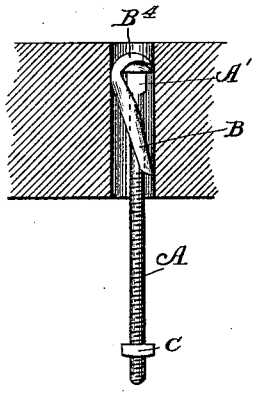


Fig. 2,

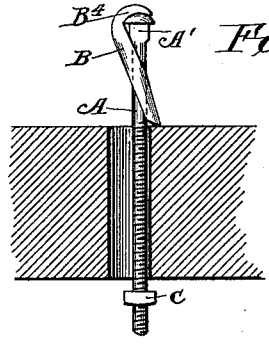


Fig. 3,

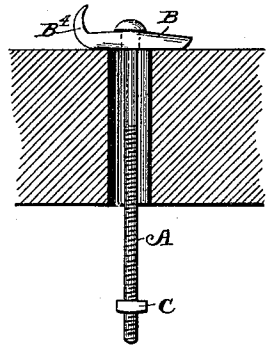


Fig. 4,

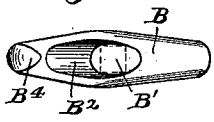


Fig. 5,

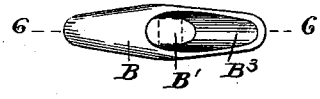
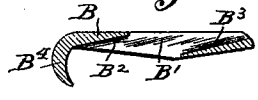


Fig. 6,



Witnesses,
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By S. W. Brainard,
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UNITED STATES PATENT OFFICE.

CHARLES H. LEVER, OF CHICAGO, ILLINOIS.

ANCHOR-BOLT.

SPECIFICATION forming part of Letters Patent No. 549,069, dated October 29, 1895.

Application filed February 23, 1895. Serial No. 539,342. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. LEVER, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, having invented a certain new and useful Improvement in Anchor-Bolts; and I declare the following to be a full, clear, and concise description of same.

The object of my invention is to construct an anchor-bolt that will be both simple and at the same time very strong, and one that readily adjusts itself when placed in position for use.

My device is designed particularly for hanging or securing electric fixtures and the like to tiled ceilings, walls, iron-work, &c., in places where it would be very difficult or impossible to enter a common bolt from the desired direction.

Referring to the drawings, Figure 1 shows my device in elevation as it appears when being passed through a hole in any desired object. The drawing shows a vertical section of a fragment of block. Fig. 2 is a view similar to Fig. 1, showing the anchor-bolt passed through the hole and the lower end of the anchor-block resting on the top of the block near the edge of the hole. Fig. 3 shows my device as it finally appears when in use. Fig. 4 is a top plan view of the anchor-block. Fig. 5 is a bottom plan view of the anchor-block. Fig. 6 is a vertical section of the anchor-block on the line 6 6, Fig. 5.

Similar letters refer to like parts throughout the specification and drawings.

My device consists of a common bolt and a specially-formed anchor-block, that will hereinafter be more particularly set forth and claimed.

I mount upon an ordinary bolt A, having the squared portion A′ beneath the head thereof, an anchor-block B, provided with an oblong opening B′, designed to receive the bolt A. The anchor-block B is also provided with two oppositely-curved concaved recesses B^2 B^3, adapted to receive the bolt A, said recesses beginning at the opening B′ and vanishing at opposite surfaces of the anchor-block B, as shown in Figs. 4, 5, and 6. The anchor-block B is also provided at one end with a hook B^4, adapted to hook over the head of the bolt A, as shown in Figs. 1 and 2. The bolt A is screw-threaded for any desired portion of its length and has mounted thereon an ordinary nut C.

The operation of my invention will be readily understood. Place the hook portion B^4 of the anchor-block B upon the head of the bolt A and pass same through a previously-prepared hole D′ in the block D, Fig. 1, then begin to withdraw the bolt, holding same so that the lower end of the anchor-block B will contact the upper surface of the block D, as shown in Fig. 2, when it will be arrested against further downward movement. The downward movement of the bolt A will cause the removal of the head of the bolt A from the hook B^4 of the anchor-block B, allowing said anchor-block to assume the horizontal position shown in Fig. 3.

I have made the opening B^2 in the anchor-block oblong, so as to receive the squared portion of the bolt A and prevent same from turning independently of the anchor-block.

The anchor-block is provided with the concave recesses B^2 B^3 to allow the anchor-block to lie as close to the bolt A as possible while being inserted, thereby requiring a comparatively-small opening.

It will be seen that my device provides a very strong anchor, as the strain is directly upon the head of the bolt and anchor-block. The anchor-block is so constructed as to bear on a considerable surface on either side of the opening.

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

1. An anchor-bolt consisting of an ordinary bolt having mounted loosely thereon, an anchor-block, provided with a central oblong opening and a hook at one end, adapted to fit over the head of the bolt, all substantially as set forth and shown.

2. In an anchor bolt, the anchor-block, having an oblong opening and oppositely inclined concave recesses for the reception of a bolt, said anchor-block also having a hook formed at one end thereof, all substantially as and for the purpose set forth.

CHARLES H. LEVER.

Witnesses:
F. B. CLARKE,
S. W. BRAINARD.