

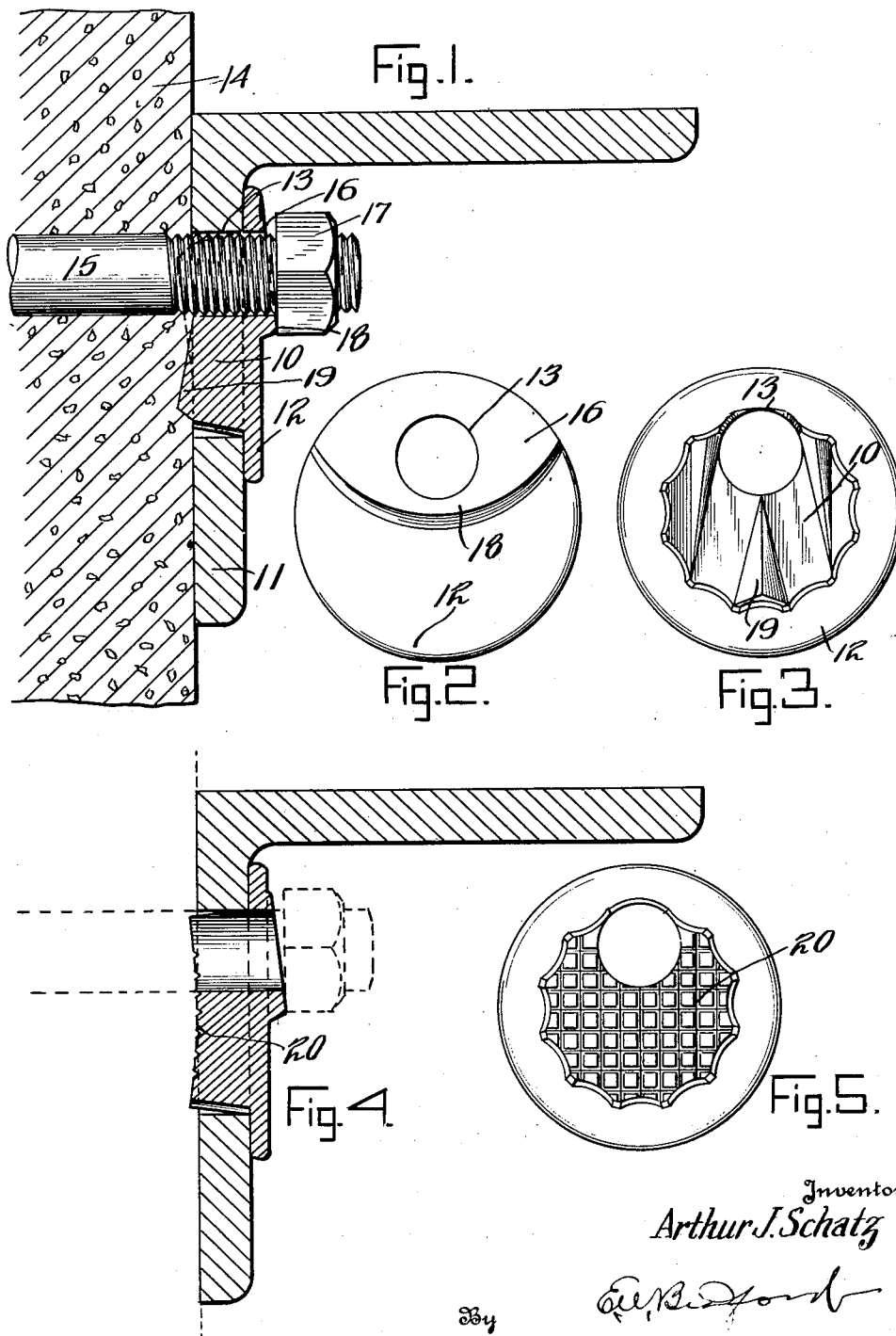
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ECENTRIC WASHER FOR ANGLE SUPPORTS

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ECCENTRIC WASHER FOR ANGLE SUPPORTS

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This invention relates to means for adjusting brackets, angle beams, or supports of any kind, and its object is to provide means for correctly positioning such brackets, etc., upon bolts which have previously been set in the wall upon which the brackets, etc., are to be supported. In constructing concrete buildings, walls, etc., it has been the custom to embed bolts within the walls of the concrete to which bolts, brackets or angle beams were later attached and held on by nuts. In setting the bolts in the concrete wall there is difficulty in getting all of them in exactly the right vertical or horizontal position. My invention provides means for adjusting the bracket or beam relative to the bolt to position the beam in the correct position.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a vertical section of a portion of a wall and a bracket held in place by my device,

Figure 2, a plan view of the face of the washer,

Figure 3, a plan view of the rear of the washer, and

Figures 4 and 5 are views similar to 1 and 3 of a modified form of washer.

The objects of the invention are carried out by means of an eccentric washer. This washer has on its rear face an extension 10 which is inserted in a slotted opening through the leg 11 of the bracket or angle iron which is to be supported. The front of the washer has a flange 12 which extends over the face of the leg of the bracket. A hole 13 is positioned through the washer and is eccentrically located. A concrete wall 14 has a bolt 15 embedded therein. The front face of the washer is provided with a sloping surface 16 surrounding the opening 13. When the washer is in position to hold the bracket against the wall the nut 17 of the bolt rests against the raised edge portion 18 of the washer so that the force of the nut will bear relatively near the center of the washer to hold it in place. The rear face of the extension 10 is roughened or fluted as shown at 19, these flutes resting

against or embedding themselves in the face of the concrete wall to hold the parts in the position in which they are to be secured. It will be seen from the fact that the hole 13 is not in the center of the washer that the washer may be rotated to position the hole 13 at any position desired so as to give the desired adjustment of the bracket after the washer has been rotated to the correct position. The nut is then secured upon the bolt so that the parts will be securely held in the position to which they are adjusted.

The form shown in Figures 4 and 5 has a checked or roughened face 20 which seats against the face of the wall. In other respects this form is similar to that shown in Figures 1, 2 and 3. In any case the washer provides means for adjusting the bracket vertically to compensate for any inaccuracy in placing the bolts in the wall, moreover the washer provides means for this adjustment so that it is not absolutely necessary to be accurate in locating the bolts. This saves time in constructing concrete walls to which brackets, hangers or beams of any kind are to be attached.

It will be obvious to those skilled in the art that various changes may be made in my device without departing from the spirit of the invention and therefore I do not limit myself to what is shown in the drawings and described in the specification, but only as indicated in the appended claims.

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

1. Adjusting means for a bracket or the like on a wall comprising a washer having a hole eccentrically located extending there-through to receive a bolt or pin, the washer having a roughened rear face adapted to seat against the face of the wall, the front face of the washer having an overhanging flange to seat against the face of a leg of the bracket, said face having a beveled surface extending partially across one side and terminating at the center, said bolt having a nut adapted to seat on a ridge formed by the inner edge of the beveled portion, substantially as set forth.

2. The combination of a bracket having an elongated slot therein and means for adjusting said bracket vertically and horizontally on a wall comprising a bolt projecting from said wall through said slot, a washer having a hole eccentric located and mounted around said slot and extending into said slot, the front face of said washer being further provided with a flange adapted to engage the side of said bracket, said face having a bevel extending from one side to the center forming a ridge at the center, and a nut mounted on said level in engagement with said ridge so that the force of the nut is transmitted relatively near the center of said washer, substantially as set forth.

3. The combination of a bracket having an elongated slot therein and means for adjusting said bracket vertically and horizontally on a surface comprising a bolt projecting through said slot, a washer having a hole eccentrically located and mounted around said bolt and extending into said slot, the front face being provided with a flange adapted to engage the side of said bracket, said face having a beveled surface extending from one side to the center forming a ridge at the center, and a nut mounted on said bolt adapted to seat on said ridge in a manner to transmit the force thereof substantially on the center of the washer, substantially as set forth.

In witness whereof, I have hereunto set my hand at Indianapolis, Indiana, this seventh day of April, A. D. nineteen hundred and thirty-one.

ARTHUR J. SCHATZ.

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