

A. H. WEISS.
 CONNECTION TERMINAL.
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1,247,916.

Patented Nov. 27, 1917.

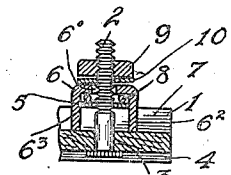
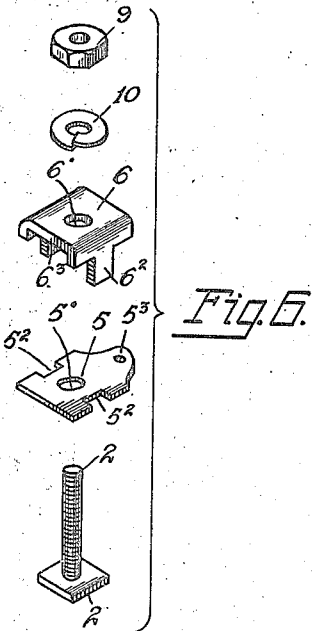
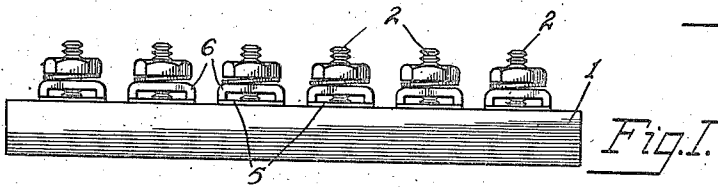
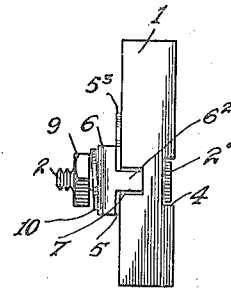
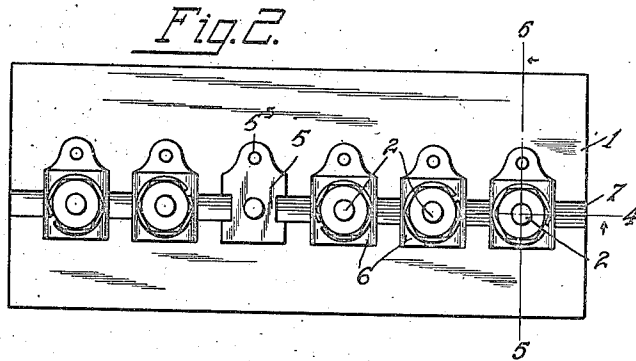


Fig. 4.

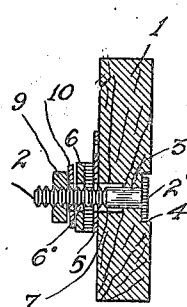


Fig. 5.

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UNITED STATES PATENT OFFICE.

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CONNECTION-TERMINAL.

1,247,916.

Specification of Letters Patent.

Patented Nov. 27, 1917.

Original application filed December 26, 1912, Serial No. 738,565. Divided and this application filed September 30, 1915. Serial No. 53,250.

To all whom it may concern:

Be it known that I, ALFRED H. WEISS, a citizen of the United States of America, residing in Wilmette, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Connection-Terminals, of which the following is a specification.

My invention relates to connection terminals and has to do more particularly with devices of this character which are provided with locking means for securely holding a conductor. My invention is directed more particularly to devices of the above character in which means is provided for preventing the clamping elements, between which the conductor is securely held, from turning in relation to each other. The present application is a division of my application for junction boxes, filed December 26, 1912, Serial No. 738,565.

My invention is particularly adapted for use with the electrical apparatus used in connection with the ignition system of an automobile. It is the object of my invention to produce an improved device of the class described which will obviate undesirable features and embody desirable features and advantages all in a simple, efficient and economical manner, and to the accomplishment of this object and such others as may hereafter appear, the invention consists in the novel details of construction, parts, and combination of parts hereafter described and particularly pointed out in the appended claims, reference being had to the accompanying drawings forming a part hereof in which the same reference characters indicate like parts throughout the several views, and in which:—

Figure 1 is an elevation of a terminal block upon which is a plurality of terminals of my invention are mounted.

Fig. 2 is a plan view of Fig. 1.

Fig. 3 is a right end view of Fig. 2.

Fig. 4 is a sectional view along the line 4—4 of Fig. 2 showing a conductor connected to the terminal.

Fig. 5 is a sectional view along the line 5—5 of Fig. 2.

Fig. 6 is a view in perspective of the parts of the terminal disassembled.

Referring now more in detail to my in-

vention as illustrated, it comprises a mounting block or strip 1 of any suitable insulating material such as fiber or bakelite, upon which the terminals of my invention are mounted. In the drawing, I have illustrated six terminals, but will only describe one of them. The terminal of my invention comprises a screw-threaded stud 2, extending through a suitable opening 3 in the mounting block or plate 1. The screw-threaded stud 2 has a square head 2¹ which fits into a groove 4 in the bottom of the mounting block 1, the said groove 4 being of a size to receive the square head 2¹ of the stud 2. The groove 4 runs the width of the mounting block 1 and keeps the said stud 2 from twisting around in the opening 3 of the block 1. A connecting plate member 5 is provided, having a suitable opening 5¹ through which the said screw stud 2 passes, the said connecting plate member 5 when in place resting upon the face of the mounting block 1. A U-shaped clamping member 6 is provided having a suitable opening 6¹ through which the said stud 2 passes. The clamping member 6 has two extending legs 6² and 6³ which fit into notches 5² in the plate 5, the said legs 6² and 6³ also extending into a groove 7 in the block 1. The groove 7 extends the width of the block and is of a width and depth to receive the said dependent legs 6² and 6³ of the clamping member 6. The legs 6² and 6³ of the member 6 fit into the notches 5² of the plate 5 and prevent the said clamping member 6 from turning in relation to plate 5. The legs 6² and 6³ are of a length to permit larger sized conductors to be clamped between the plates 5 and 6 and at the same time prevent the said plate 6 from turning in relation to plate 5. A nut 9 having screw-threaded engagement with the stud 2 clamps the said conductor 8 between the plate 5 and the member 6. A split washer 10 is placed between the nut 9 and member 6 and acts as a lock for the nut 9 when the said nut is screwed down tightly to hold the conductor 9 between the plate 5 and clamping member 6. The plate 5 has an extension 5³ which serves as a terminal for the said plate 5.

While I have described one specific embodiment of my invention, I do not wish to be limited to the same, as it is apparent

that changes and modifications may be made without departing from the spirit and scope of the appended claims.

Having described my invention what I claim as new and desire to secure by United States Letters Patent is:

1. A device of the character described including a mounting block, a channel cut in said block, a contact plate mounted upon said block, a U-shaped clamping member adapted to fit over said contact plate to prevent the rotation of said clamping member when a conductor is being fastened between said contact plate and said clamping member, a threaded fastening member, provided with a lock washer and a nut, passing through orifices in said contact plate and clamping member to securely hold the conductor between said contact plate and clamping member, and an integrally formed rectangular head for said fastening member adapted to fit into said channel to prevent said fastening member from rotating when said nut is turned to secure said conductor in position.

2. In a device of the character described, the combination with a mounting block of insulating material, of a plurality of electrical terminals mounted thereon, a slot extending across said block, a plurality of contact plates lying above said slot, a clamping plate provided with integrally formed side pieces for each of said contact plates, each of said clamping plates fitting over said contact plates and extending into said slot in a manner to prevent the rotation of said clamping plates in relation to said con-

tact plates, a second slot extending across said mounting block, and a fastening member for each of said contact plates and clamping plates having a square head fitting into said last slot and passing through orifices in said plates to securely hold conductors between the clamping surfaces of said plates.

3. A device of the character described including a mounting strip, a clamping member provided with integrally formed side pieces bent at right angles to the contact surface of said clamping member, the said side pieces of the clamping member being adapted to prevent the rotation of said clamping member in relation to said mounting strip when a conductor is being clamped in position by said clamping member, an orifice in both said clamping member and said mounting strip, a threaded cylindrical fastening member extending through both of said orifices, a lock washer and a nut for said fastening member for clamping said conductor in position, and a rectangular head for said fastening member adapted to fit into the said orifice in the mounting strip to prevent said fastening member from rotating when said nut is turned to secure said conductor in place.

Signed by me at Chicago, county of Cook and State of Illinois, in the presence of two witnesses.

ALFRED H. WEISS.

Witnesses:

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