Sept. 9, 1947. W. BAUMANN 2,427,118

TERMINAL FOR ELECTRIC WIRING

Filed Feb. 20, 1943

Fig. 1.

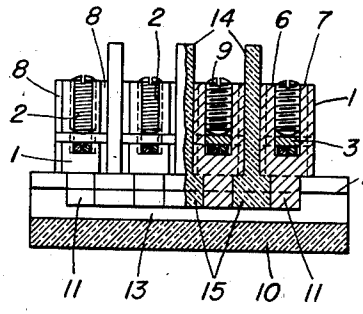


Fig. 2.

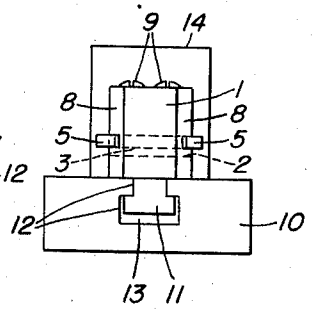


Fig. 3.

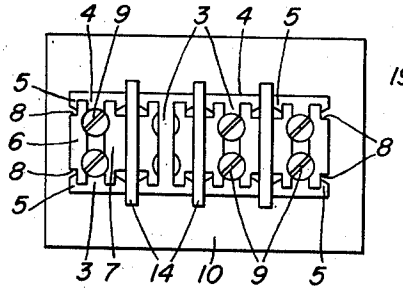


Fig. 4.

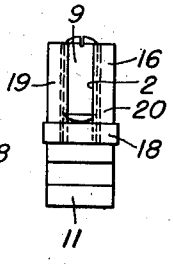
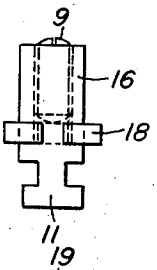


Fig. 5.



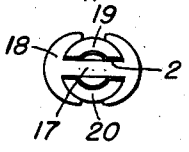


Fig. 6.

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TERMINAL FOR ELECTRIC WIRING

Walter Baumann, Aarau, Switzerland

Application February 20, 1943, Serial No. 476,602
In Switzerland January 29, 1942

1 Claim. (Cl. 173—259)

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Terminals for electric wiring having a slit to receive the conductors and at least one clamp screw to hold in place the ends of the wires already exist. In such terminals two disadvantages are apparent, viz., the clamp screws force apart the terminal parts, which are separated from each other and weakened by the slit; and the clamp screws destroy the ends of the wires on which they are tightly screwed down.

These disadvantages are eliminated by the terminal forming the object of present invention.

The terminal specified in the invention is provided with a metal plate laid in the slit of the terminal, and this plate grips to a certain point the terminal parts on both sides of the slit in order to prevent them from being forced apart by the clamp screws and at the same time transmits the pressure of the clamp screws on to the ends of the wires.

Two variants of the terminal specified in the invention are represented in the attached drawing, in which

Fig. 1 shows a vertical plan and in part a cross-section of four terminals in a first variation arranged on a distribution plate;

Fig. 2 shows a side view of the terminal with the base plate,

Fig. 3 shows a top view of Fig. 1,

Figs. 4–6 show a vertical plan, a side view and a ground plan respectively of a second variation.

The terminal shown in Figs. 1–4 possesses a body of prismatic shape, which is provided with a slit 2 to receive the wires conducting the electricity to be connected with each other. A plate in the form of a double T lies with its cross-piece 3 in slit 2 and the two head-pieces 4 of double T are bent inwards at 5. Terminal parts 6 and 7 on each side of slit 2 have on their outer surfaces niches 8 into which the ends 5 of the head-pieces of the double T fit so as to grip terminal parts 6 and 7. The two clamp screws 9 engage a thread cut in the walls of the slit and press cross-piece 3 of the plate on to the ends of the wire introduced into slit 2, thus holding these ends in place. Ends 5 of the plate, which grip terminal parts 6 and 7, preclude the possibility of these parts being forced apart by the action of clamp screws 9. A base plate of insulating material is marked 10, and on this plate the four terminals shown in Figs. 1 and 3 are arranged in a row. For this purpose the terminals are provided with a support 11 which has the shape of a hammer-head and which is introduced into a suitably

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shaped groove 12. The depth of groove 12 is greater than the vertical height of support 11, so that a free space 13 is left beneath the support for the draining-off of condensation liquid. The adjacent terminals are separated from each other by insulating walls 14, which are constructed with supports 15 similar to those of the terminals and which can also be introduced into groove 12.

In the variation shown in Figs. 4–6 the body of the terminals is cylindrical in shape and is also provided with a slit 2. Provision is made for only one clamp screw 9, which presses the plate against the ends of the wire. The plate is once more in the form of a double T with a cross-piece introduced into slit 2 and crescent-shaped head-pieces 18, which clasp terminal parts 19 and 20 on both sides of slit 2. The terminal can again be furnished with a support 11 with a view to being arranged with others in a row on a base plate.

I claim:

A terminal clamp for electric conductors comprising a substantially rectangular base plate of an insulating material, a longitudinal groove in said base plate, at least one terminal in said base plate, said terminal consisting of a base member located in said groove and two vertical lateral legs, a central vertical slot-shaped recess separating said legs, a substantially double T-shaped cross bar inserted with its web portion in said recess, electrical conductors located in the bottom portion of said recess and underneath said cross bar, said legs having at their outer sides vertical recesses, the flanges of said cross bar being shaped to embrace said legs and to enter into said recesses, screw threads in the opposed inner walls of said terminals and clamp screws adapted to be screwed into said threads and to press said cross bar onto said inductors.

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