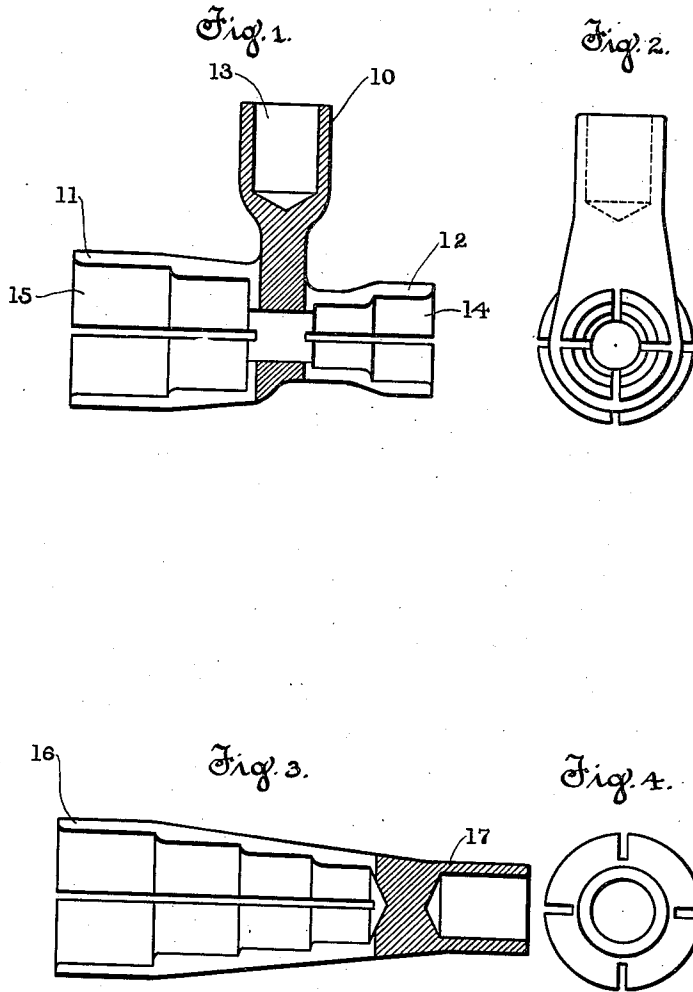


E. MATTMAN.
CONNECTOR.

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1,000,031.

Patented Aug. 8, 1911.



Witnesses
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EMIL MATTMAN, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO ALLIS-CHALMERS COMPANY, A CORPORATION OF NEW JERSEY.

CONNECTOR.

1,000,031.

Specification of Letters Patent.

Patented Aug. 8, 1911.

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To all whom it may concern:

Be it known that I, EMIL MATTMAN, a citizen of Switzerland, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Connectors, of which the following is a full, clear, and exact specification.

My invention relates to connectors to be used in electric circuits.

It is advantageous to be able to make quick and reliable connections between conductors in an electric circuit and at the same time make secure connections of high efficiency. It is further advantageous to be able to make connections without the assistance of tools. This is particularly true on a test floor where a great deal of testing is being done. Again, conductors used in testing may necessarily be of different sizes. It is unhandy to be required to use several different terminals of different sizes in order to make connections and to complete a circuit.

The object of my invention is to provide a connector having a terminal or terminals of simple construction which are arranged to cooperate with cables or conductors of different sizes, and which is adapted for use in circuits in which reliable connections are to be quickly made and broken without the use of tools.

In the accompanying sheet of drawings Figure 1 is a longitudinal sectional view and Fig. 2 is an end view of a connector embodying my invention; and Figs. 3 and 4 are also longitudinal sectional and end views of a modification of that shown in the above mentioned figures.

My connector comprises a plurality of terminals 10, 11, and 12. One of these terminals 10 of the connector is provided with an opening 13 for the reception of a conductor which is to be permanently connected to said terminal. The other terminals 11 and 12 are provided with bored holes 14 and 15, the diameters of which decrease with the depth. These terminals 11 and 12 are preferably formed with internal stepped portions for the reception of conductors of a plurality of different sizes, and are further provided with longitudinal slots forming yielding projections which firmly grip inserted conductors.

In Fig. 1 I have shown a connector in which the temporary terminals 11 and 12 are on either side of the permanent terminal 10. In Fig. 3 I have illustrated a modification of said connector in which I have a hollow terminal 16 which is cut and internally stepped the same as terminals 11 and 12 of Fig. 1, but with the exception that this terminal is provided with four steps in a row and is in a direct line with a permanent terminal 17.

My connector is especially applicable for test floor work but its use is not limited to this branch for it is of practical importance wherever reliable connections are to be quickly made and broken and where the conductors being used vary in size.

There may be many modifications of the precise form and arrangement herein shown and described and I aim in my claims to cover all such modifications which do not involve a departure from the spirit and scope of my invention.

What I claim as new is:—

1. An article of manufacture, comprising a cable connector having a plurality of terminals, one of which is stepped and cut to form yielding projections.

2. An article of manufacture, comprising a cable connector having a terminal which is provided with a stepped bored hole, all of the parts of said connector being integral.

3. An article of manufacture, comprising a cable connector having a terminal which is provided with a stepped bored hole, all of said steps having a common axis.

4. An article of manufacture, comprising a cable connector having a terminal which is provided with a stepped bored hole, and longitudinal slots forming projections to grip inserted cables.

5. A connector for electric circuits, comprising terminals, a plurality of which have stepped portions and are cut to form yielding projections to cooperate with conductors of different sizes.

6. A connector for electric circuits, comprising hollow terminals, one or more of which are provided with stepped holes and are cut to form yielding projections for the reception of conductors of different sizes.

7. A connector for electric circuits, comprising terminals, one of which is provided

with a stepped hole for the reception of
conductors of different sizes.

8. A connector for electric circuits, com-
prising a permanent terminal and a tempo-
5 rary stepped terminal, the latter being slot-
ted to render it yieldable.

Milwaukee, Wis., Sept. 3, 1909.

In testimony whereof I affix my signature,
in the presence of two witnesses.

EMIL MATTMAN.

Witnesses:

CHAS. L. BYRON,
ROB. E. STOLL.