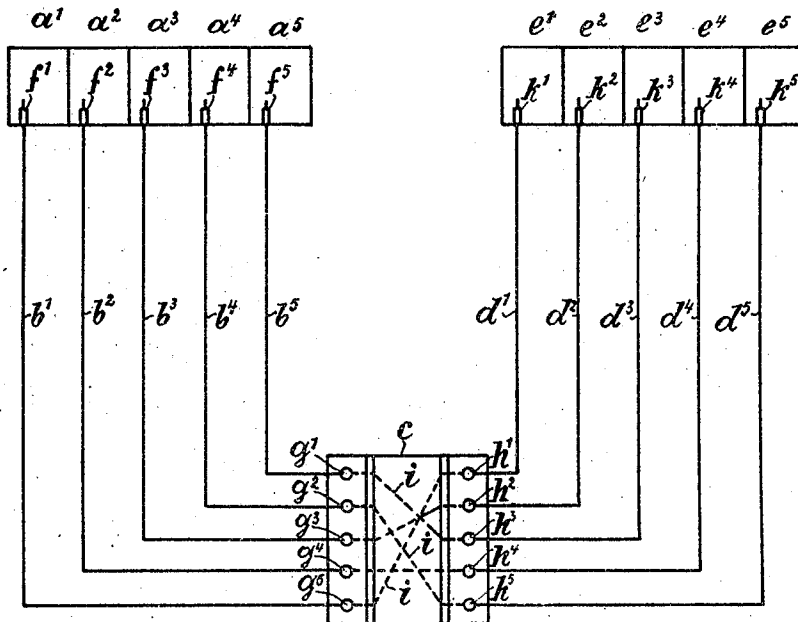


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B. SALZMANN.
JACK CORD DISTRIBUTER.
APPLICATION FILED NOV. 13, 1905.



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UNITED STATES PATENT OFFICE.

BENNO SALZMANN, OF BERLIN, GERMANY.

JACK-CORD DISTRIBUTER.

No. 812,286.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed November 16, 1905. Serial No. 287,724.

To all whom it may concern:

Be it known that I, BENNO SALZMANN, a citizen of the Empire of Germany, residing at Berlin, in the Empire of Germany, have invented a new and useful Jack-Cord Distributer, of which the following is a specification.

In telephone-exchanges with separate distribution-switchboards and with separate connection-switchboards it is exceedingly desirable that the jack-cords should be shifted easily and quickly for connecting at will any inquiring-plug in either distribution-switchboard with any jack in either connection-switchboard. For this purpose hitherto jack-cord distributors have been in use; but they were disposed in the several distribution-switchboards themselves near the operators and presented the disadvantage that their operation was difficult and took up comparatively much time, as it was necessary to draw or handle very long jack-cords.

My invention relates to a jack-cord distributor which is independent of both the distribution-switchboards and the connection-switchboards and is inserted between them. This jack-cord distributor presents the advantage that the several cords coming from the inquiring-plugs in the distribution-switchboards can be connected at will with the several jack-cords leading to the jacks in the connection-switchboards and disconnected therefrom and shifted in a most easy and quick manner.

I will now proceed to describe my invention with reference to the accompanying drawing, which represents a diagram.

$a^1 a^2 a^3 a^4 a^5$ represent several distribution-switchboards, each controlled by an operator, and $e^1 e^2 e^3 e^4 e^5$ represent several connection-switchboards, each under the control of an operator. c denotes a jack-cord distributor according to my invention. Cords $b^1 b^2 b^3 b^4 b^5$ are shown as connecting the inquiring-plugs $f^1 f^2 f^3 f^4 f^5$ in the several distribution-switchboards $a^1 a^2 a^3 a^4 a^5$ with binding-posts $g^1 g^2 g^3 g^4 g^5$ in the jack-cord distributor c . Jack-cords $d^1 d^2 d^3 d^4 d^5$ connect the jacks $k^1 k^2 k^3 k^4 k^5$ in the several connection-switchboards $e^1 e^2 e^3 e^4 e^5$ with corresponding binding-posts $h^1 h^2 h^3 h^4 h^5$ in the jack-cord distributor c . The binding-posts $g^1 g^2 g^3 g^4 g^5$ and $h^1 h^2 h^3 h^4 h^5$ may be replaced by equivalent known means, if so preferred. Separate cords $i i i i i$ are employed for connecting at

will the several binding-posts $g^1 g^2 g^3 g^4 g^5$ of the one row with the several binding-posts $h^1 h^2 h^3 h^4 h^5$ of the other row, as is, for example, indicated by the dotted lines. The connection of the cords $i i i i i$ with the respective binding-posts $g^1 g^2 g^3 g^4 g^5$ and $h^1 h^2 h^3 h^4 h^5$ or their equivalents may be effected in any known manner, be it by soldering or screwing or by means of intermediate plugs, (say similar to those in the known spring-commutators.) The inquiring-plugs $f^1 f^2 f^3 f^4 f^5$ and the jacks $k^1 k^2 k^3 k^4 k^5$ are shifted by the respective operators in the usual manner. Where so required, also the cords $b^1 b^2 b^3 b^4 b^5$ and $d^1 d^2 d^3 d^4 d^5$ may be shifted. The cords $i i i i i$ are constantly shifted for connecting either inquiring-plug f with either jack k , as may be required.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a telephone-exchange, the combination with a plurality of distribution-switchboards each provided with a hearing-plug, of a plurality of connection-switchboards each provided with a jack, a jack-cord distributor comprising two rows of binding-posts or the like, a plurality of cords connecting the hearing-plugs in said plurality of distribution-switchboards with the binding-posts or the like in the one row of said jack-cord distributor, a plurality of jack-cords connecting the jacks in said plurality of connection-switchboards with the binding-posts or the like in the other row of said jack-cord distributor, shiftable cords for connecting at will the several binding-posts or the like of the one row with those of the other row in said jack-cord distributor, and means for fastening the ends of said shiftable cords on the binding-posts or the like in said jack-cord distributor.

2. In a telephone-exchange, the combination with a plurality of distribution-switchboards each provided with a hearing-plug, of a plurality of connection-switchboards each provided with a jack, a jack-cord distributor comprising two rows of binding-posts or the like, a plurality of cords shiftable connecting the hearing-plugs in said plurality of distribution-switchboards with the binding-posts or the like in the one row of said jack-cord distributor, a plurality of jack-cords shiftable connecting the jacks in said plurality of connection-switchboards with the binding-posts or the like in the other row of said jack-cord dis-

tributer, shiftable cords for connecting at will the several binding-posts or the like of the one row with those of the other row in said jack-cord distributor, and means for fastening the
5 ends of said shiftable cords on the binding-posts or the like in said jack-cord distributor.
In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

BENNO SALZMANN.

Witnesses:

M. SITTENMANN,
RICHARD RISENSTILL.