

H. O. RUGH.  
CORDLESS JACK BOX.  
APPLICATION FILED MAY 4, 1909.

951,918.

Patented Mar. 15, 1910.

Fig. 1.

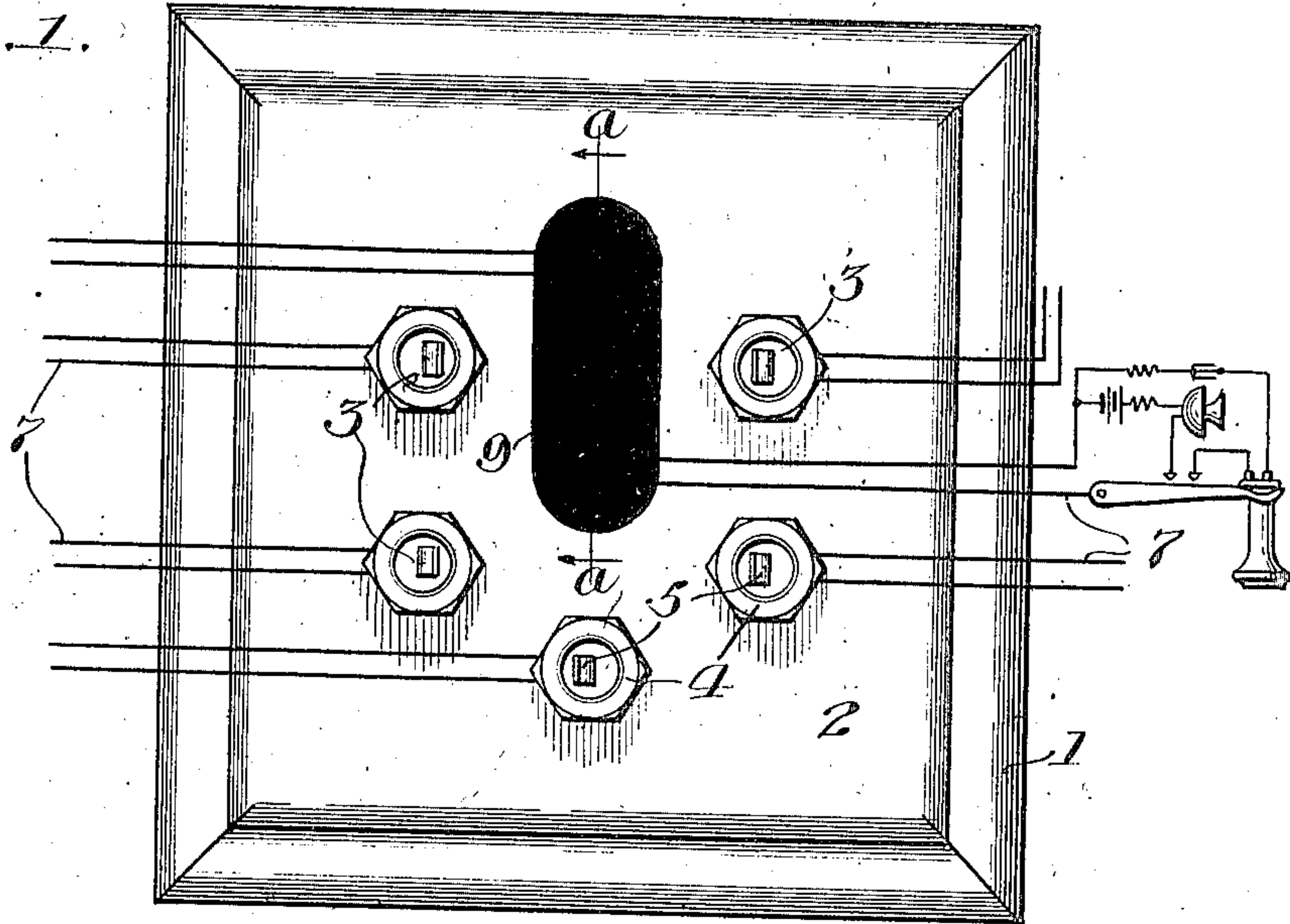
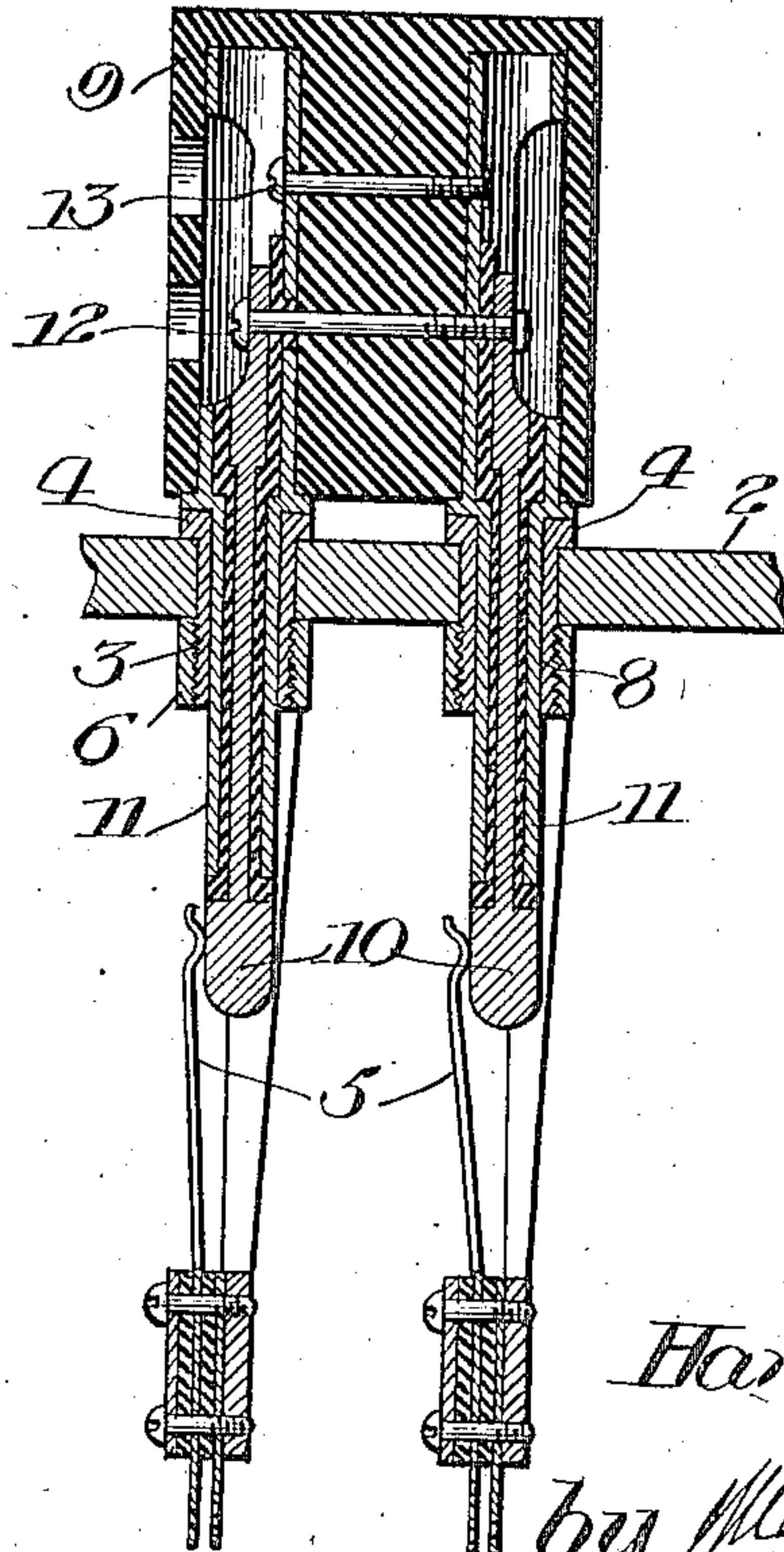


Fig. 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## CORDLESS JACK-BOX.

951,918

Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed May 4, 1909. Serial No. 493,941.

*To all whom it may concern:*

Be it known that I, HARRY O. RUGH, citizen of the United States, residing at Sandwich, in the county of Dekalb and State of Illinois, have invented a certain new and useful Improvement in Cordless Jack-Boxes, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a cordless jack-box, or other interconnecting apparatus, and has for its object the provision of improved means whereby interconnections may be made between various electric circuits which come together at a common central station.

I will describe my invention more in detail by reference to the accompanying drawing, illustrating one embodiment thereof, in which—

Figure 1 is a top view of a cordless jack-box with the plug in position, and Fig. 2 is a sectional view on the lines *a—*a** of Fig. 1.

I here show a jack-box 1, provided with a suitable cover 2, upon which cover are mounted jacks 3, 3, which jacks are provided with a sleeve contact ring 4, and a tip contact spring 5. The jacks are mounted by means of nuts 6, to hold them in place in the cover 2. The jacks are adapted for connection to metallic circuits 7, one of which is shown provided with a sub-station telephone circuit, there being two contact points in each jack, as illustrated. As here shown, I have one central jack, 8, which is the same as all of the jacks 3, in construction, which central jack is the one shown connected with the local telephone set, the other metallic circuits preferably running out from the central station to various stations where similar telephone sets may be provided.

The novel arrangement of the jacks is such that the central or operator's jack 8 is distant from a plurality of substation jacks 3, so that a twin plug 9 can be inserted between the various jacks for interconnecting purposes. The twin plug 9 has two tip contacts 10, and two sleeve contacts 11, which are respectively connected together by means of screws 12 and 13. Thus, it will be seen that the two tip contacts of the twin plug and the two sleeve contacts, being connected

together when the plug is inserted in any two jacks, it completes the metallic circuit between two metallic circuits entering said jacks. By reason of this construction, I am enabled to proceed with the various interconnections without the use of cords, thus overcoming the attendant maintenance cost of said cords.

While I have herein shown and particularly described the preferred embodiment of my invention, I do not limit myself to the precise construction and arrangement as herein set forth, but

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

1. A cordless interconnecting apparatus comprising a central jack, a telephone connected thereto, a plurality of jacks equidistant from said central jack, substation lines connected thereto, and a metallic twin plug for connecting the central jack to either one of the other jacks.

2. A cordless interconnecting apparatus comprising a central jack, a telephone connected thereto, a plurality of jacks equidistant from said central jack, substation lines connected thereto, and a twin plug for connecting the central jack to either one of the other jacks.

3. A cordless interconnecting apparatus comprising a plurality of jacks each connected to a separate independent circuit, connecting means associated with a central circuit mounted at a predetermined distance from each jack aforesaid, and a twin plug adapted to engage operatively said means and either of said jacks.

4. A cordless interconnecting apparatus comprising a plurality of jacks each connected to a separate independent circuit, connecting means associated with a central circuit, and a twin plug, all parts being so spaced that when the twin plug has one leg inserted in either jack aforesaid, the other leg is adapted to engage said means.

In witness whereof, I hereunto subscribe my name this 19th day of April A. D., 1909.

HARRY O. RUGH.

Witnesses:

MAX W. ZABEL,  
JEAN ELLIOTT.