

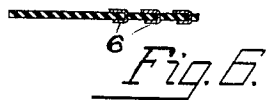
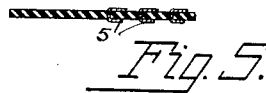
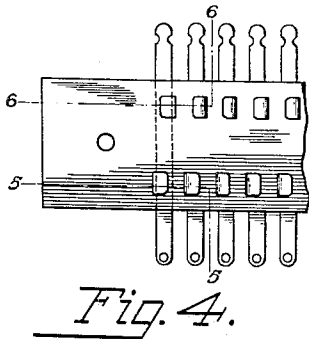
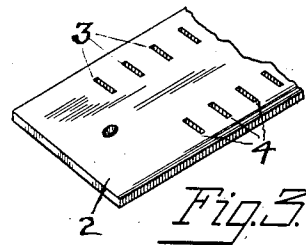
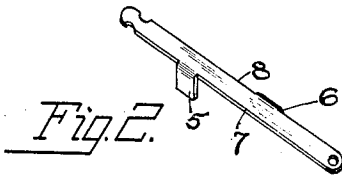
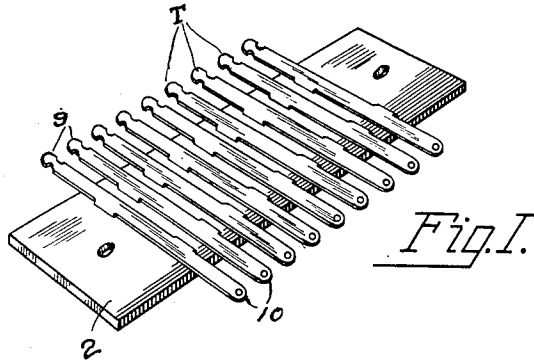
Nov. 11 , 1924.

1,514,618

H. H. IDE

TERMINAL STRIP

Filed July 12, 1920



Inventor:
Harry H. Ide.
By Curtis C. Camp,
Attorney.

UNITED STATES PATENT OFFICE.

HARRY H. IDE, OF LA GRANGE, ILLINOIS, ASSIGNOR TO KELLOGG SWITCHBOARD AND SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

TERMINAL STRIP.

Application filed July 12, 1920. Serial No. 395,690.

To all whom it may concern:

Be it known that I, HARRY H. IDE, a citizen of the United States, residing in La Grange, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Terminal Strips, of which the following is a specification.

My invention relates to terminals and has to do more particularly with terminals such as are arranged in banks or strips, and an object of my invention is to provide a terminal strip which is economical to manufacture and compact in structure, whereby it will utilize the minimum amount of space when employed in completing the circuits or wiring of electrical apparatus.

The novel features of the invention, through the provision of which the above-mentioned and other advantageous results are attained, will be explained by reference to the accompanying drawing, in which a preferred embodiment of my invention is shown, and in which—

Fig. 1 is a perspective view of the terminal strip of my invention;

Fig. 2 is a perspective view of one of the terminals before it is secured to its mounting strip;

Fig. 3 is a perspective of a portion of the mounting strip, which is of suitable insulation material and upon which the terminals are secured;

Fig. 4 is a bottom view of a portion of the terminal strip;

Fig. 5 is a sectional view along the line 5—5 of Fig. 4;

Fig. 6 is a sectional view along the line 6—6 of Fig. 4.

Referring now more in detail to my invention as illustrated, it comprises a strip or plate 2 of suitable insulation material, which supports the terminals T. The mounting plate 2 is provided with a plurality of rectangular orifices 3 and 4 for purposes as will be presently described. The terminals T are made of suitable conducting material, such as sheet brass, from which the said terminals T are punched and formed, as clearly illustrated in Fig. 2.

The terminals T are provided with angularly extending tongues 5 and 6 from opposite sides 7 and 8 of the body portion of the terminals T. To mount the terminals T upon the plate 2, the tongues 5 and 6 of the terminals T are inserted, respectively, into a

pair of rectangular shaped orifices 3 and 4 in the said plate 2. The tongues 5 and 6 protrude through the orifices 3 and 4 in the plate 2, and these protruding end portions of the tongues 5 and 6 of the terminals T are bent substantially parallel with the bottom face of the plate 2, as clearly illustrated in Figs. 4, 5 and 6. When in this position the terminals T rest upon the top face of the plate 2 and are securely held in place thereon without any additional securing means against displacement. The end portions 9 and 10 of the terminals T extend beyond the edge of the plate 2, and these said extending end portions are approximately of the same length and serve as terminals to which wires may be attached.

In actual practice, the strips 2 of terminals T are placed one upon another, with a strip of insulation between the strips of terminals 2, and the end portions 9 of the desired different strips are soldered together to multiply connect the terminals in any desired manner.

While I have illustrated and described a preferred embodiment of my invention, I do not wish to be limited to the exact structure as shown, but aim to cover all such changes and modifications as come within the spirit and scope of the appended claims.

What I claim as new and desire to secure by United States Letters Patent, is:

1. A strip of insulation provided with a plurality of orifices arranged in pairs, each pair being arranged in a zigzag position in relation to each other, terminal strips extending crosswise of said strip of insulation, a pair of projecting integrally formed ears for each of said terminal strips, one of the ears of said pair appearing on one side of the terminal strip and the other ear of said pair appearing on the opposite side of said terminal strip, both ears arranged in a corresponding zigzag position relative to each other so that they register with a pair of said zigzag orifices and protrude slightly beyond said insulation strip, said ears then having their ends bent parallel to the insulation strip for securing said terminal strip to said insulation strip.

2. A mounting plate comprising an insulating strip provided with a plurality of orifices arranged in pairs, each pair arranged in a zigzag position relative to each other, terminal strips extending crosswise of said

mounting plate, a pair of ears for each terminal strip formed integrally therewith, one ear of said pair being on one side of the terminal and the other ear of said pair being
5 on the other side of the terminal, both ears being at right angles to said strip and arranged in a zigzag position so that they register with a pair of orifices in said mounting strip and protrude slightly beyond the
10 mounting plate, then having their ends bent parallel to said mounting plate and said terminal strip to prevent displacement of said terminal strip on said mounting plate.

3. A mounting plate comprising an insulation strip having a pair of orifices arranged in a staggered position, a terminal strip extending across said mounting plate and having its ends extending beyond the edges of said mounting plate and adapted to receive
20 external conductors, an ear on either side of said terminal and formed integrally at right angles therewith, said ears arranged in a staggered position so that they register with

said pair of orifices, said ears after registering with said orifices having their ends bent
25 at right angles to said pair of orifices to secure said terminal strip in position.

4. A mounting plate comprising an insulation strip having a plurality of rectangular openings arranged in pairs, the opening of
30 each pair being arranged in a staggered position relative to each other, a flat terminal strip provided with an integrally formed ear on either side of said terminal strip and at right angles thereto, said ears being of a
35 size and arranged in a staggered position so that they engage a pair of said orifices and protrude slightly beyond said mounting plate and have their free ends turned over
40 parallel to said mounting plate and said terminal strip and at right angles to said pair of rectangular openings.

Signed by me at Chicago, in the county of Cook and State of Illinois, this 9th day of July, 1920.

HARRY H. IDE.