

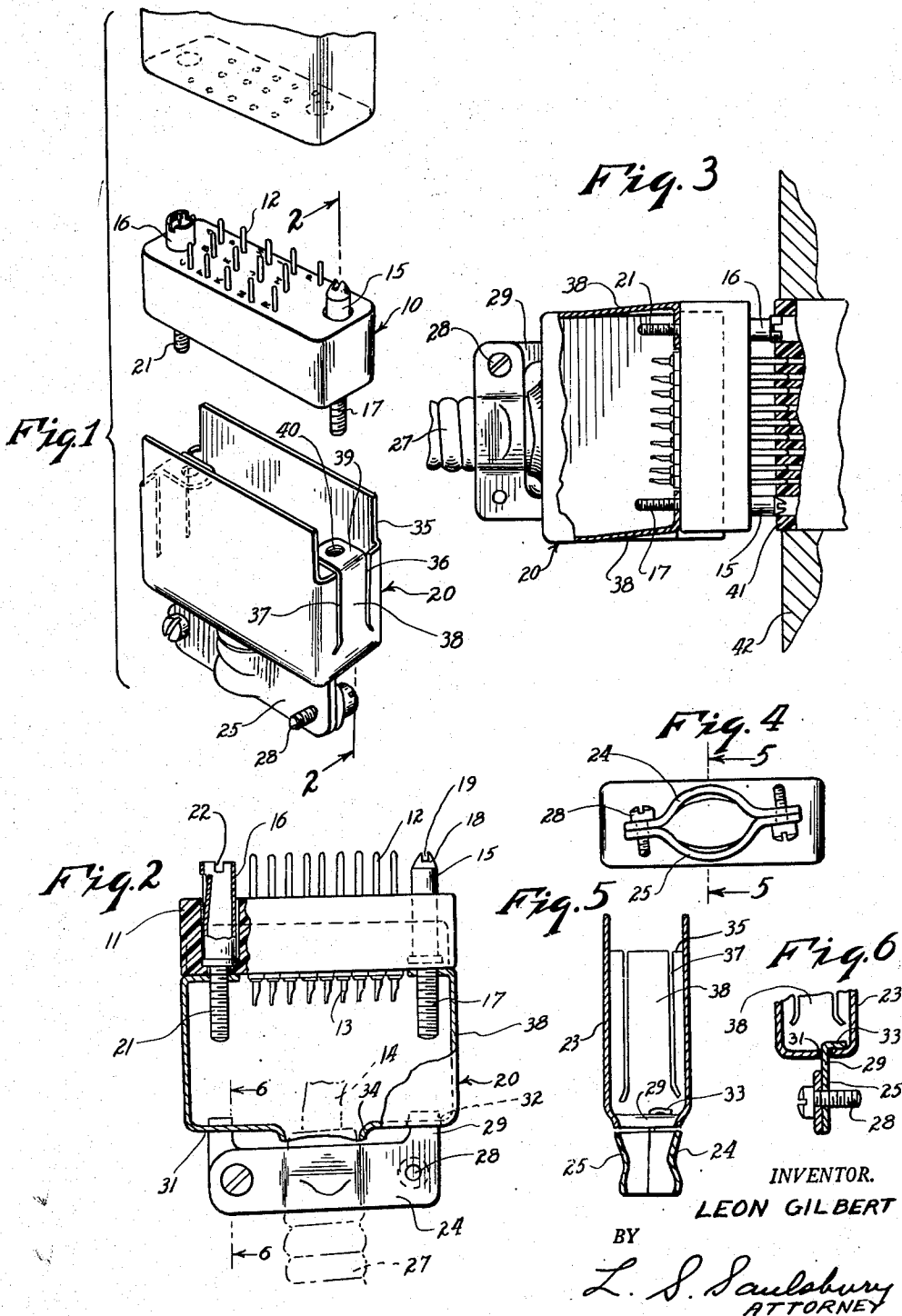
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ELECTRICAL CONNECTOR HOOD ASSEMBLY

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ELECTRICAL CONNECTOR HOOD ASSEMBLY

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2 Claims. (Cl. 339-136)

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This invention relates to electrical connectors and more particularly to a hood for the connector parts.

It is an object of the present invention to provide a hood for an electrical connector part which is attached thereto through the polarizing terminals and which permits the connector part to have a certain amount of play relative to the hood in order to adapt itself to the other connector part which may be fixed to a panel or other stationary member.

It is another object of the present invention to provide a hood for a connector part which is adapted to receive and retain a wire cable wherein the clamping parts for the wire cable are loosely secured to the main hood part and wherein the assembly is effected by projections on the respective clamping parts that pass into diagonally disposed openings in the main hood part and turned over inside of the main hood part to retain the clamping parts against outward displacement therefrom.

Other objects of the present invention are to provide a hood for electrical connector parts which is of simple construction, inexpensive to manufacture, easy to assemble upon the connector part, permits a floating lateral movement of the connector part relative to the hood, light in weight, simplicity of design and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a collective view of the connector parts and the hood adapted for use on one of the connector parts.

Fig. 2 is a vertical sectional view of the hood connected to one of the connector parts and as viewed generally on line 2-2 of Fig. 1.

Fig. 3 is a side elevational view of the hood and connector part being positioned into a fixed connector part with portions of the hood broken away to show the lateral play permitted to the hood while making the insertion of the connector carried thereby into the fixed connector part.

Fig. 4 is an end elevational view of the hood and looking upon the clamp parts for retaining the wire cable.

Fig. 5 is a vertical sectional view of the hood taken on line 5-5 of Fig. 4.

Fig. 6 is a fragmentary sectional view taken through the clamp parts and the connection thereof with the main hood member and as viewed on line 6-6 of Fig. 2.

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Referring now to the figures, 10 represents a connector part which has an insulating body 11 with a plurality of male terminals 12 connected thereto and having hollow ends 13 for receiving the respective wires of a cable 14. This connector part also has polarizing male and female terminals 15 and 16 extending therethrough. The male terminal 15 has a threaded shank 17 and a tapered outer end 18 with a slot 19 therein adapted to receive a screw driver for effecting the connection of the connector part with hood 20. The female connector part 16 has a threaded shank 21 and its outer end is slotted at 22 to receive a screw driver for effecting the connection of this terminal with the hood 20. The hood 20 is formed of a main dished body or shell member 23, Fig. 6, and clamp parts 24 and 25. The clamp parts are secured together about a cable armor 27 by clamp screws 28. Each of the clamp parts has a projection 29. In the end of the shell 20 are holes 31 and 32 in diagonally opposite corners which receive the respective projections 29. The projections, upon extending through the openings, are bent over, as indicated at 33, to retain the clamp parts against outward displacement from the shell. A large opening 34 is provided in the shell member 23 at the end thereof for the purpose of receiving cable 14 and its armor 27.

The ends of the shell member 23 are cut away at 35 to receive the insulating block 11 of the connector part 10. The sides of the shell member will thus extend over the sides of the insulating member to serve not only to retain the insulating member or connecting part, but also to guide the same during any lateral shifting movement of the connector part. The respective ends of the shell member 23 are provided with parallel slots 36 and 37 whereby to provide a bendable tongue 38 with a turned in end 39 having a threaded opening 40 therein. The threaded shanks of the terminal members 15 and 16 are screwed into the threaded openings 40 so as to tightly secure the connector part 10 to the tongues 38. The tongues can be sprung laterally, as shown in Fig. 3, in order to permit the easy alignment of the connector part 10 with a fixed connector part 41 in a wall or panel 42. The connector part 10 can accordingly float to a certain extent in order to allow for the alignment of the terminals with the connector part 41.

The shell body is made out of aluminum or its alloy and has sufficient resiliency or springiness for the tongues to normally center themselves and be returned to their initial positions when the

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pressure upon the hood and connector part has ceased.

The connection of the connector part 10 with the hood is a simple operation of merely turning the terminals 15 and 16 with a screw driver fitted into their respective slots. If polarizing terminals 15 and 16 are not used, an ordinary screw can be used for effecting the connection of this connector part to the hood.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

I claim:

1. An electrical connector part hood assembly comprising a shell member open at one end to receive a connector part, said shell member having opposing sides cut away from its open end to permit the lateral shifting movement of the connector part relative thereto and providing side extensions to guide the connector part during any lateral shifting movement thereof, each of said ends being slit and providing a tongue adapted to be flexed inwardly and outwardly of the shell member, said tongue being adapted to receive fastening means on the connector part, said shell member having an opening removed from its open one end for receiving a cable.

2. In combination, an electrical connector part having an insulating block and polarizing elements disposed in the opposite ends of the block, connector terminals disposed in the block and extending from one side to the other thereof, said polarizing elements having threaded shank portions and end slots adapted to receive a screw

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driver, a shell member having an open end to receive the connector part and opposing side portions cut away from its open end to permit the lateral adjustment of the connector part in the open end of the shell member and provided side extensions to guide the connector part during any lateral adjustment thereof, said side portions being further slit to provide shiftable tongues, said tongues being respectively bent inwardly and having threaded openings receiving the threaded shanks of the polarizing elements whereby to make secure the connector part to the tongues, said shell member having a cable opening for receiving a cable in order that its wires may connect with the connection terminals, and cable clamp means adjacent the cable opening and adapted to retain the cable within the opening of the shell member.

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