

ABSTRACT OF THE DISCLOSURE

The current invention addresses a device to improve manufacturing of an outer shell modular connector which
5 comprises overmold connectors. Each overmold connector comprises a circuit board to facilitate electrical connections. However, since each overmold connector provides multiple contact surfaces for specific electrical connections, the orientation of each circuit board with
10 respect to the overmold connector is crucial for predetermined electrical connections. The outer shell modular connector in turn encases a number of the overmold connectors. The overmold connectors must be placed in a predetermined position and orientation within the outer
15 shell modular connector so as to achieve desirable electrical connections.

According to the current invention, the predetermined orientation between the circuit board and the overmold connector is ascertained by a pair of polarization
20 keys of the current invention. Similarly, another pair of the polarization keys ascertains the predetermined orientation between the overmold connector and the outer shell modular connector.

According to another aspect of the current
25 invention, a predetermined position of a particular overmold connector within an outer shell modular connector is ascertained by a unique pair of the polarization keys. Such a unique pair of the polarization keys also ascertains the



- 21 -

predetermined orientation of the electrical connections with respect to the outer shell modular connector. Thus, a particular set of electrical connections on a circuit board is correctly orientated and positioned with respect to a 5 outer shell modular connector.

This Sheet Has Been Replaced

