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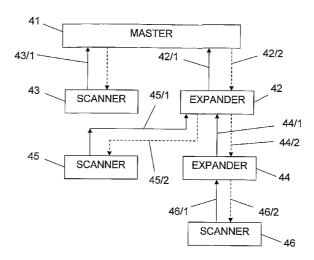
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(54) Title: MODULAR SCANNING SYSTEM FOR CABLING SYSTEMS



(57) Abstract: Method and system for acquiring and updating the topology of a modular scanning system (Fig. 4), in which patch panels (Fig. 1, #14 and #15) are scanned (Fig. 1, #17/1). The result of the scanning of each panel is forwarded (Fig. 4, #46/1) to a memory cell of an expander (Fig. 1, #12). The output of each expander is forwarded (Fig. 4, #44/1) to a cell of a successive expander (Fig. 2, #22), and so forth (Fig. 3, #33), until the output of a final expander is forwarded (Fig. 4, #42/1) to a master (Fig. 1, #11). Each scanning unit forwards unique ID data to an expander, to which said scanning unit is connected. The unique ID data is relayed from the expander to higher level expanders, all of which are connected in series with respect to one another, until reaching a second level expander (Fig. 3, #32), from which the ID data is forwarded to the master where it is stored. This process is repeated while the ID data replaced with neighbors' data, for allowing the master to know which scanning unit is connected to which scanning unit. Finally, the topology map is generated in the master from the collection of ID data and neighbors' data stored therein.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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