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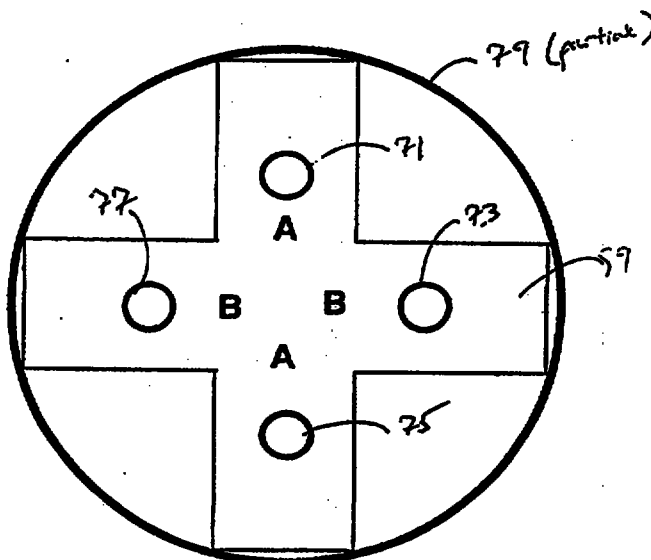
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(54) Title: ELECTRICALLY OPTIMIZED HYBRID "LAST MILE" TELECOMMUNICATIONS CABLE SYSTEM

(57) Abstract

A cable system is provided which can accommodate electrical and optical cabling. The conductors (71, 73, 75, and 79) of the system employ a layer (79) which is impedance-matched to space, decreasing their cross section to electromagnetic interference. The conductors of the system also employ a layer (79) which symmetrizes electromagnetic interference signals, reducing the effect of interference and crosstalk on the signals carried by the conductors. The system also includes a node interface device for connection to a global electrical and fiber network. The node interface device connects to a user interface device through the cable.

Quad annular center support.
scale 10 X



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