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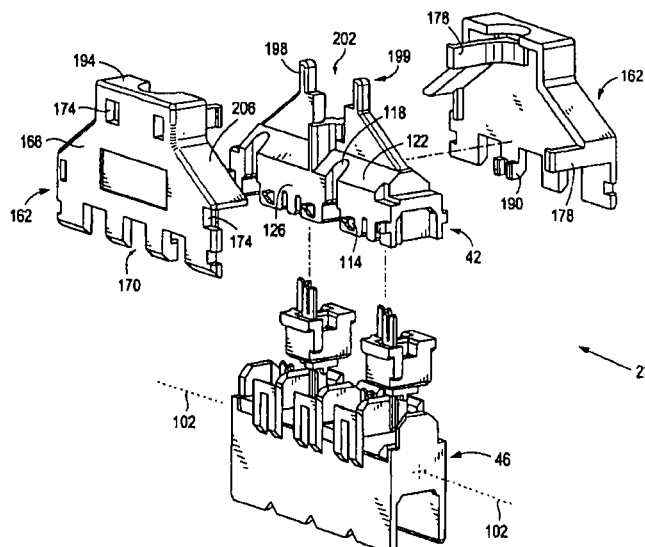
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(54) Title: **PLUG AND BLOCK CONNECTOR SYSTEM FOR DIFFERENTIAL CONTACT PAIRS**



(57) Abstract: A connector plug is provided including a plug body formed along a longitudinal axis and holding multiple contacts arranged in differential pairs. The channels extend along a vertical axis of the plug body and are perpendicular to the longitudinal axis. The channels are grouped in first differential pairs located on a common side of the longitudinal axis adjacent second differential pairs of channels being located on opposite sides of the longitudinal axis. The connector plug also includes a wire guide having a first end configured to join an end of the plug body. The wire guide has a second end configured to receive a cable containing twisted differential pairs of wires. The wire guide has guide slots that carry corresponding twisted differential pairs of wires. The second end has wire dress grooves extending from the guide slots to the channels. Each of the wire dress grooves receives a wire.

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