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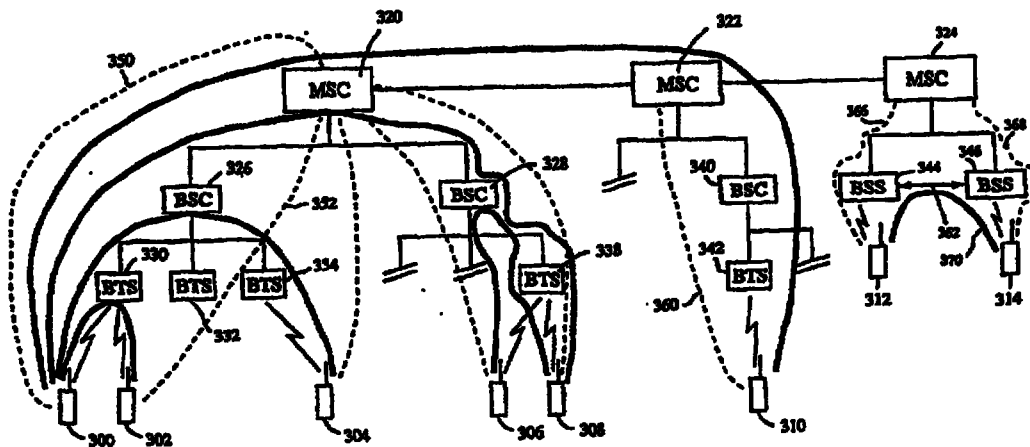
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(57) Abstract

An apparatus for cross-connecting an end-to-end connection between an origination mobile station and a destination mobile station in a network of cross-connect nodes, which includes a call control circuit. The call control circuit includes a first circuit portion for receiving call control information from the origination mobile station and the destination mobile station and a second circuit portion for determining, responsive to receiving the call control information from the origination mobile station and the destination mobile station, an optimum end-to-end connection for cross-connecting the end-to-end connection through the network of cross-connect nodes. The optimum end-to-end connection represents a computed shortest communication route between the origination mobile station and the destination mobile station that satisfies resource requirements for cross-connecting the end-to-end connection.