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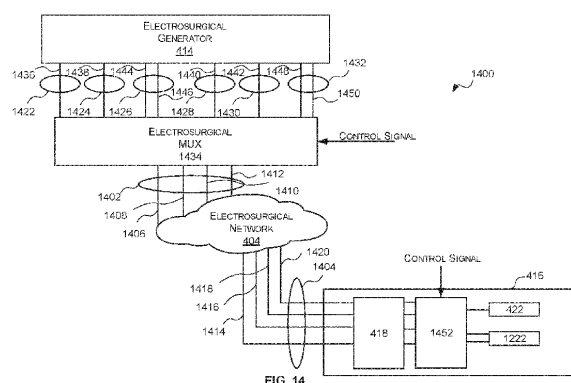
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(54) **ELECTROSURGICAL NETWORK**

(57) Electrosurgical systems comprising an electro-surgical network connecting a plurality of electrosurgical connection units (each connectable to an electrosurgical instrument), an electrosurgical multiplexor comprising inputs configured to receive a plurality of different electrosurgical channels and an output, the electrosurgical multiplexor configured to controllably connect one or more of the electrosurgical channels of the plurality of electrosurgical channels to the output of the electrosurgical multiplexor, and a control unit configured to transmit one or more control signals to the electrosurgical connection units and the electrosurgical multiplexer to cause (i) the electrosurgical multiplexor to dynamically connect a first electrosurgical channel of the plurality of electrosurgical channels to a first set of electrosurgical conductors of the electrosurgical link connected to the output of the electrosurgical multiplexor, and (ii) each output port of a first selected set of electrosurgical connection units to be connected to the first electrosurgical channel.



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