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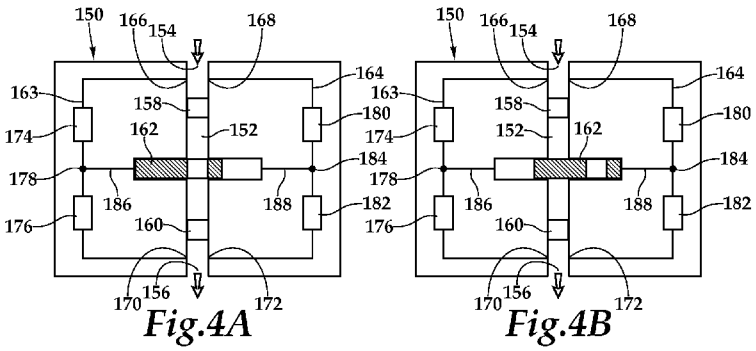

Fig.4A *Fig.4B*

(57) Abstract: A downhole fluid flow control system includes a fluidic module (150) having a main fluid pathway (152), a valve (162) and a bridge network. The valve (162) has a first position wherein fluid flow through the main fluid pathway (152) is allowed and a second position wherein fluid flow through the main fluid pathway (152) is restricted. The bridge network has first and second branch fluid pathways (163, 164) each having a common fluid inlet (166, 168) and a common fluid outlet (170, 172) with the main fluid pathway (152) and each including two fluid flow resistors (174, 176, 180, 182) with a pressure output terminal (178, 184) positioned therebetween. In operation, the pressure difference between the pressure output terminals (178, 184) of the first and second branch fluid pathways (163, 164) shifts the valve (162) between the first and second positions.

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