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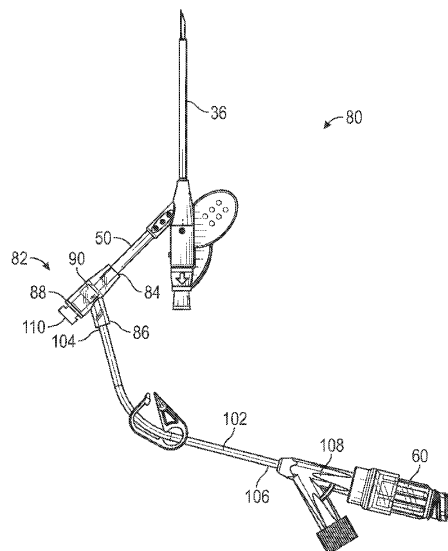


FIG. 9

(57) Abstract: A catheter system 80 may include a catheter hub, comprising a distal end, a proximal end, a side port disposed between the distal end of the catheter hub and the proximal end of the catheter hub; a catheter 36 extending distally from the distal end of the catheter hub; a Y-adapter 82, comprising a distal end 84, a first port 86, and a second port 88; an extension tube 50, comprising a distal end integrated with the side port and a proximal end integrated with the distal end of the Y-adapter; and a septum disposed within the Y-adapter, wherein the septum comprises a vent.

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