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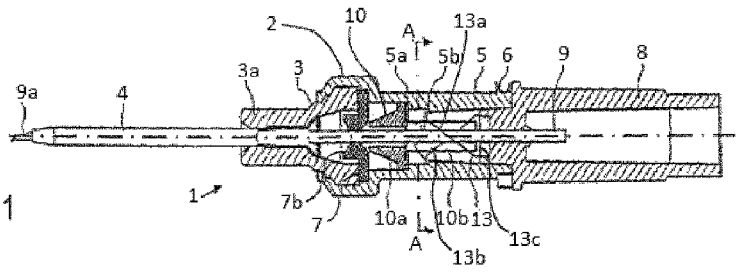


Fig. 1

(57) Abstract: Catheter assemblies (1) are described having a catheter hub (2) with a catheter tube (4) and a needle hub (8) with a needle (9) projecting through the catheter tube. The catheter hub has a valve (7) or a septum for stopping or slowing down the flow of fluid in or out of the catheter hub when the valve or septum is closed. The valve has features formed thereon to facilitate venting, opening, closing, or combinations thereof.

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