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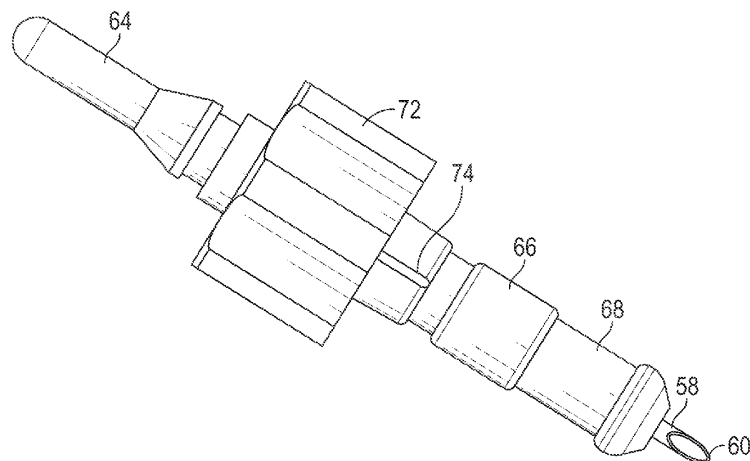


FIG. 2B

(57) Abstract: A needle adapter may include a body, which may include a distal end and proximal end. The needle adapter may include a needle extending through the body. The needle may include a distal tip and a proximal tip. The distal tip may extend distal to the distal end of the body. The proximal tip may extend proximal to the proximal end of the body. The needle assembly may include a sheath coupled to the body and extending over the proximal tip. The needle assembly may include a hydrophobic vent element surrounding the body. The needle assembly may include a septum coupled to the distal end of the body.

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