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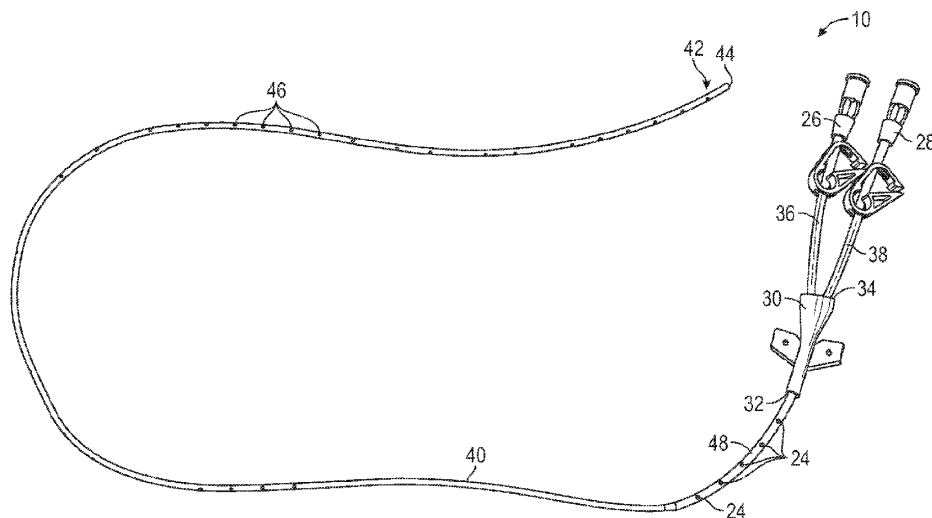


FIG. 1A

(57) Abstract: A vascular access device (10) may include a first lumen (12), which may include a distal end (14) and a proximal end (16). The vascular access device may also include a second lumen (18), which may include a distal end (20) and a proximal end (22). The distal end of the second lumen may be proximal to the distal end of the first lumen. The vascular access device may include an opening (24) or a valve adjacent to the distal end of the second lumen and providing access to the second lumen. The vascular access device may include a first connector (26), which may be disposed at a proximal end of the first lumen, and a second connector (28), which may be disposed at a proximal end of the second lumen.

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WO 2021/194792 A1

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