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(71) Applicant: **BECTON, DICKINSON AND COMPANY**
[US/US]; 1 Becton Drive, Franklin Lakes, New Jersey
07417 (US).

(72) Inventors: **CHEN, Xiwei**; 9F/10F, Tower 3, JingAn Kerry Centre No 1228, Yan'an Road Middle, JingAn District, Shanghai, Shanghai 200040 (CN). **JIANG, Tao**; 9F/10F, Tower 3, JingAn Kerry Centre No 1228, Yan'an Road Middle, JingAn District, Shanghai, Shanghai 200040 (CN). **MA, Yiping**; 2220 N. 2300 E., Layton, Utah 84040 (US). **KUNARDI, Linda**; 305 Serangoon Ave 2, #09-104, Singapore 550305 (SG). **CHENG, Kiat Jin**; Blk 125 Bishan Street 12 #02-103, Singapore 570125 (SG). **WONG, Thomson**; Blk 655B Jurong West Street 61, #10-542, Singapore 642655 (SG).

(74) Agent: **BLAIR, Whitney**; Kirton McConkie, 36 South State Street, Suite 1900, Salt Lake City, Utah 84111 (US).

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(54) Title: RETAINER ELEMENT TO SECURE A CATHETER ADAPTER VALVE

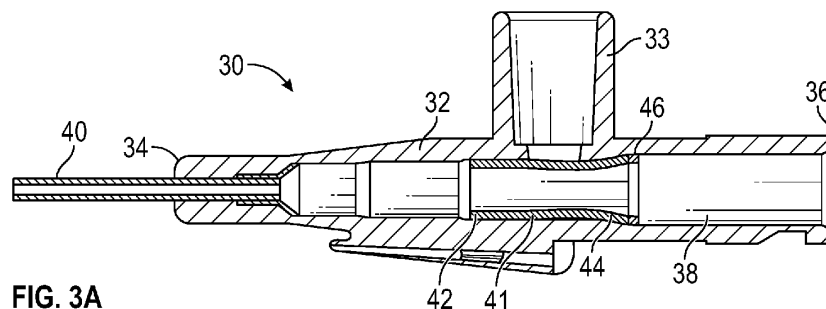


FIG. 3A

(57) Abstract: A catheter assembly may include a catheter adapter, which may include a distal end, a proximal end, a lumen extending through the distal end of the catheter adapter and the proximal end of the catheter adapter, and a side port disposed between the distal end of the catheter adapter and the proximal end of the catheter adapter. The catheter assembly may include a catheter extending distally from the distal end of the catheter adapter. The catheter assembly may include a valve disposed within the lumen. The catheter assembly may include a retainer element configured to secure the annular valve within the lumen. The retainer element may be disposed within the lumen proximal to a proximal end of the annular valve.

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