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

(72) Inventors: **WILLYBIRO, Kathryn**; 2183 Fenchurch Drive,
Park City, Utah 84060 (US). **BURKHOLZ, Jonathan**
Karl; 1971 S. Wasatch Drive, Salt Lake City, Utah 84108
(US). **SPATARO, Joseph**; 7701 S. Summerhill Circle, Cot-

tonwood Heights, Utah 84121 (US). **MA, Yiping**; 2220 N.
2300 E., Layton, Utah 84040 (US). **TRAN, Huy**; 11878
S. Reeves Lane, Riverton, Utah 84065 (US). **PETERSON,**
Bart D.; 1988 Silver Spur Way, Farmington, Utah 84025
(US).

(74) Agent: **METCALF, Craig**; Kirton McConkie, 36 S. State
Street, Suite 1900, Salt Lake City, Utah 84111 (US).

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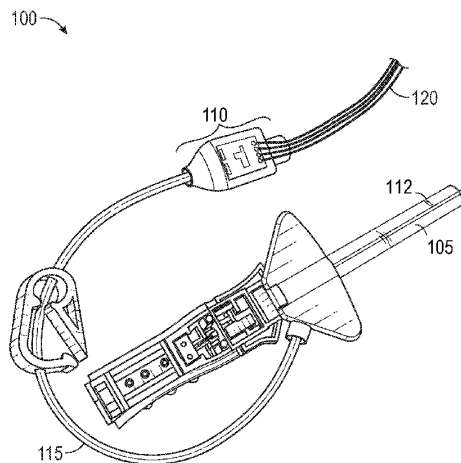


FIG. 1

(57) Abstract: An intravenous (IV) device, may include a needle; a catheter coaxially formed around the needle; a fluidic path fluidically coupled to a hollow formed through the needle and catheter; and a printed circuit board (PCB), including: a network interface device; a plurality of sensors operatively coupled to the fluidic path to measure a biological characteristic related to a plurality of patient vitals.

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