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(54) Title: CONTACTLESS CONDUCTIVITY DETECTOR

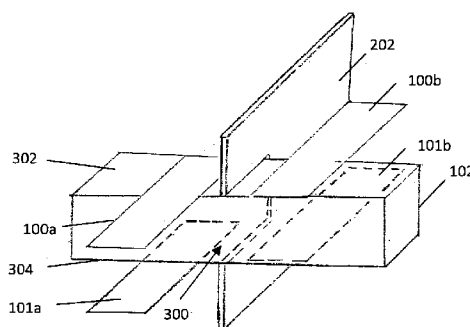


FIGURE 3

(57) Abstract: The contactless conductivity detector in one embodiment includes a microfluidic chip having a channel (102) thereon and four detection electrodes: first and second emitting electrodes (100a, 101a), and first and second receiving electrodes (100b, 101b). The channel (102) is defined by channel walls. The first emitting electrode (100a) and the first receiving electrode (100b) are adjacent a first channel wall, and the second emitting electrode (101a) and the second receiving electrode (101b) are adjacent a second channel wall, the second channel wall being opposite the first channel wall.

