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- (54) **Title:** SYSTEMS AND METHODS FOR ELECTRONICALLY AND OPTICALLY MONITORING BIOLOGICAL SAMPLES

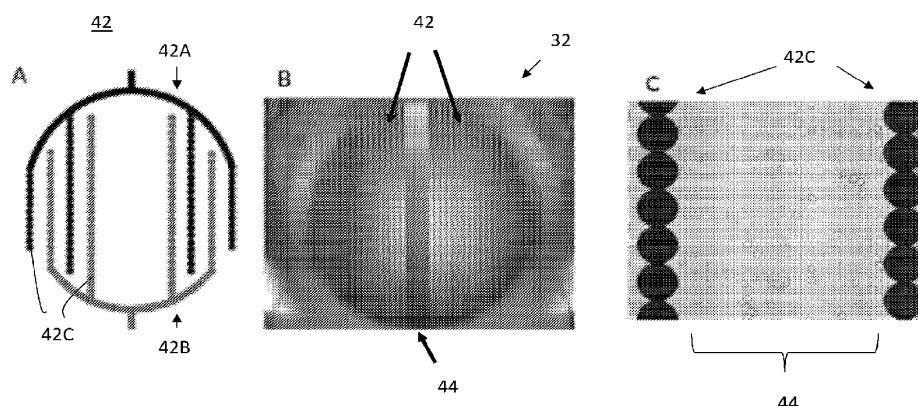


FIG. 5

- (57) **Abstract:** A system for electronically and optically monitoring biological samples, the system including: a multi-well plate having a plurality of wells configured to receive a plurality of biological samples, each of the wells having a set of electrodes and a transparent window on a bottom surface of the well that is free of electrodes; an illumination module configured to illuminate the wells; a cradle configured to receive the multi-well plate, the cradle having an opening on the bottom that exposes the transparent windows of the wells; and an optical imaging module movable across different wells of a same multi-well plate to capture images through the windows.

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