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(54) **Title:** COMPOSITIONS AND METHODS FOR AMPLIFYING POLYNUCLEOTIDES

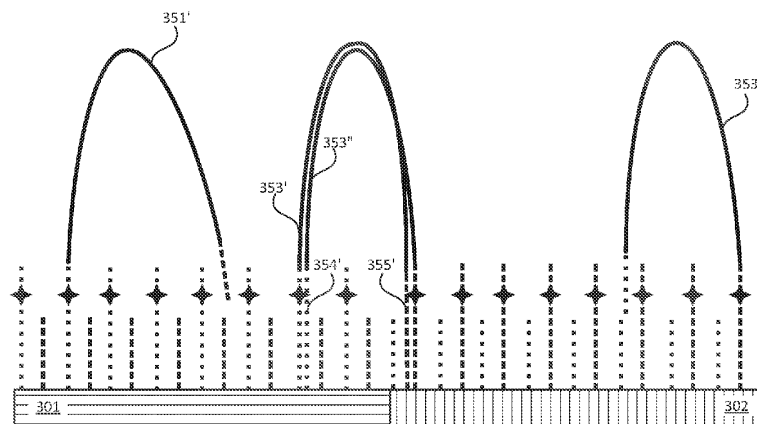


FIG. 3F

(57) **Abstract:** A composition for amplifying a polynucleotide is provided that includes a substrate comprising a first region and a second region. A first plurality of capture primers is coupled to the first region of the substrate. A second plurality of capture primers is coupled to the second region of the substrate. The capture primers of the second plurality of capture primers are longer than the capture primers of the first plurality of capture primers. A first plurality of orthogonal capture primers are coupled to the first region of the substrate. A second plurality of orthogonal capture primers are coupled to the second region of the substrate. The orthogonal capture primers of the second plurality of orthogonal capture primers are shorter than the orthogonal capture primers of the first plurality of orthogonal capture primers.

[Continued on next page]

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