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(54) Title: MICRODEVICES FOR SEPARATION OF NON-SPHERICAL PARTICLES AND APPLICATIONS THEREOF

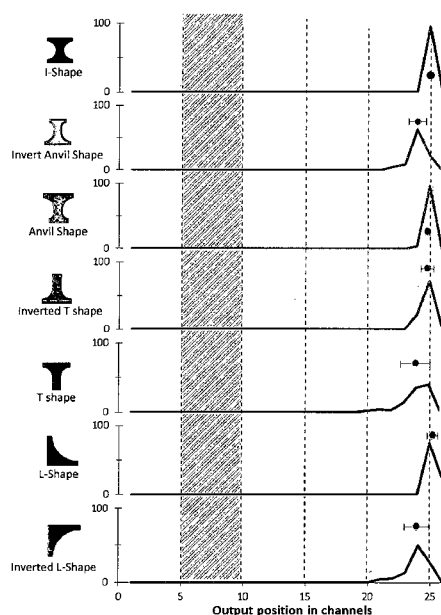


Figure 7. Graph of 3.5 micron bead separation in various pillar shapes.

(57) Abstract: The invention concerns at least one pillar in, or for use in, a microfluidic device wherein said pillar comprises, in cross-section, at least one particle abutment surface and an adjacent space that indents said pillar, or an adjacent groove that indents said pillar, to accommodate said particle; a plurality of such pillars arranged in an array; a method for separating particles in a fluid using said pillar, array or said device; and a diagnostic method involving the separation of particles from a fluid using said pillar, array or said device.



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