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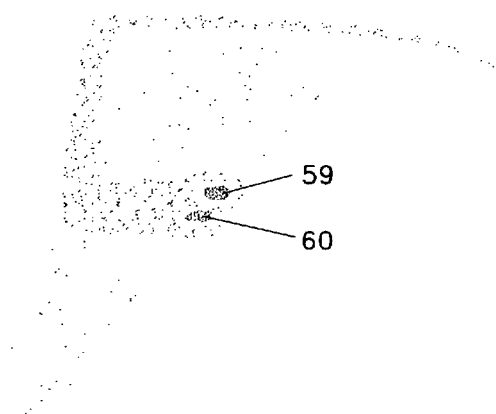
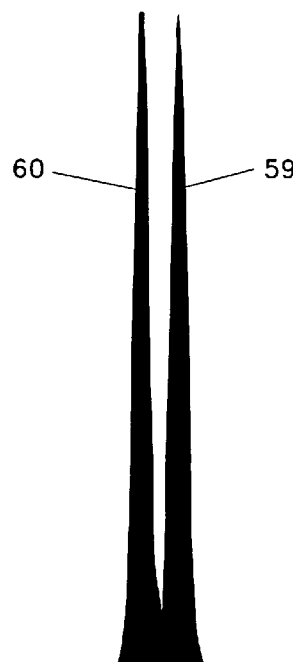
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(54) Title: HIGH PURITY X-CHROMOSOME BEARING AND Y-CHROMOSOME BEARING POPULATIONS OF SPERMATOOZOA



(57) Abstract: Isolated non-naturally occurring populations of spermatozoa (15) having high purity and technologies to differentiate spermatozoa (28) based on characteristics such as mass, volume, orientation, or emitted light including methods of analysis and apparatus such as beam shaping optics (30) and detectors (32).

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