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(54) Title: SAMPLE STREAM CENTRATION

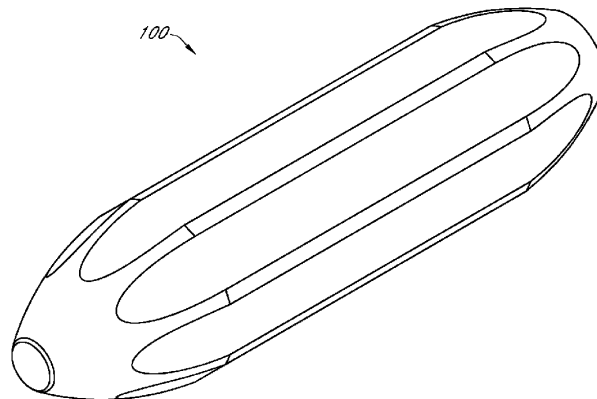


FIG. 1

(57) Abstract: Provided are, inter alia, flow centrator components (100) that can be used in flow cytometers and other applications. A flow centrator can define central axis (116), a proximal end (106), and a distal end (108), and having a central bore (112) extending within the flow centrator component in the direction of the central axis; the flow centrator component defining a splined outer surface that defines a plurality of circumferentially arranged bypass flute channels (126), the plurality of bypass flute channels extending in the direction of the central axis, and each of the bypass flute channels having a depth and a length. Also provided are related methods that utilize the disclosed components.

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