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(54) **MIXING IN WICKING STRUCTURES AND THE USE OF ENHANCED MIXING WITHIN WICKS IN MICROCHANNEL DEVICES**

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B01F 3/04 (2006.01)

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(58) **Field of Classification Search** 261/99, 261/154

See application file for complete search history.

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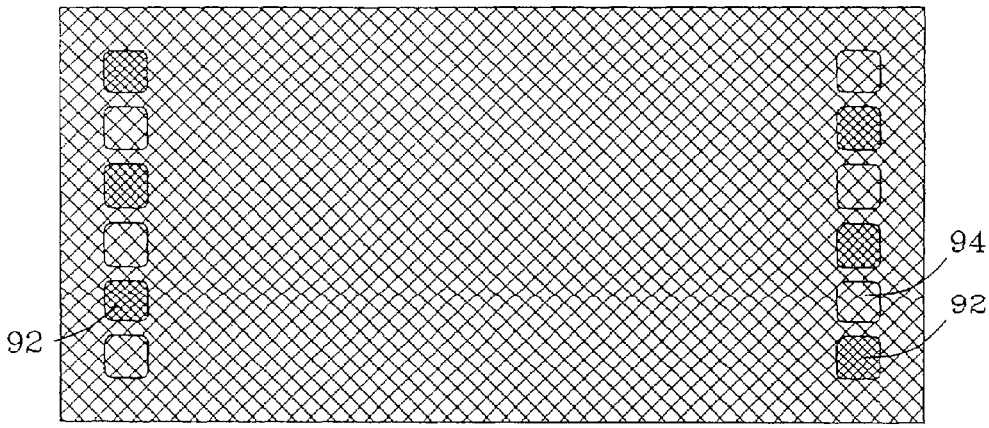
(57) **ABSTRACT**

Advanced wicking structures and methods utilizing these structures are described. The use of advanced wicking structures can promote rapid mass transfer while maintaining high capillary pressure through the use of small pores. Particularly improved results in fluid contacting processes can be achieved by enhanced mixing within a wicking layer within a microchannel.

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