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(54) **MICROFLUIDIC SYSTEM WITH FLUID PICKUPS**

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See application file for complete search history.

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(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 33 days.

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(21) Appl. No.: **14/312,488**

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B01L 7/00 (2006.01)

(57) **ABSTRACT**

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CPC **B01L 3/502784** (2013.01); **B01L 3/50273** (2013.01); **B01L 3/502715** (2013.01); **C12N 15/1075** (2013.01); **B01L 3/50853** (2013.01); **B01L 7/52** (2013.01); **B01L 2200/027** (2013.01);

Microfluidic system, including methods and apparatus, for processing fluid, such as by droplet generation. In some embodiments, the system may include a well and a channel component attached to the well. The channel component may include (a) a body, (b) an input tube (a "fluid pickup") projecting from a bottom surface of the body and having an open bottom end disposed in the input well, (c) a microchannel, and (d) a passage extending through the input tube and the body and connecting the well to the microchannel. The system may be configured to receive a sample-containing fluid in the well and retain the sample-containing fluid below a top end of the passage, until a pressure differential is created that drives at least a portion of the sample-containing fluid from the well via the passage and through the microchannel.

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(58) **Field of Classification Search**
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