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Kolosov et al.

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(54) **FLOW DETECTORS HAVING MECHANICAL OSCILLATORS, AND USE THEREOF IN FLOW CHARACTERIZATION SYSTEMS**

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(75) Inventors: **Oleg Kolosov**, San Jose, CA (US);
Leonid Matsiev, San Jose, CA (US);
Miroslav Petro, San Jose, CA (US)

(73) Assignee: **Symyx Technologies, Inc.**, Santa Clara, CA (US)

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Related U.S. Application Data

Senstronics "Storm 50 Joint Pressure and Temperature Specifications".

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Primary Examiner—Hezron Williams
Assistant Examiner—Rodney Frank
(74) *Attorney, Agent, or Firm*—Senniger Powers

(52) **U.S. Cl.** 73/61.52; 73/53.01; 73/61.43; 73/61.41

(57) **ABSTRACT**

(58) **Field of Classification Search** 73/61.52, 73/61.43, 61.41, 53.01
See application file for complete search history.

An improved system, device and method for characterizing a fluid sample that includes injecting a fluid sample into a mobile phase of a flow characterization system, and detecting a property of the fluid sample or of a component thereof with a flow detector comprising a mechanical resonator, preferably one that is operated at a frequency less than about 1 MHz, such as a tuning fork resonator.

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25 Claims, 8 Drawing Sheets

