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(54) **HIGH THROUGHPUT RHEOLOGICAL TESTING OF MATERIALS**

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(57) **ABSTRACT**

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The present invention provides systems and methods for screening a library of material samples for a rheological property such as viscosity or elasticity. Accordingly, a library of material samples is can be provided in a substantially liquid form. The library is contacted with at least one probe for applying a stimulus to the material samples such as by moving the at least one probe within the samples. A response such as resistance to the motion of the probe is monitored and can be related to a rheological property of the samples.

