



US 20040077091A1

(19) **United States**

(12) **Patent Application Publication**
Hajduk et al.

(10) **Pub. No.: US 2004/0077091 A1**

(43) **Pub. Date: Apr. 22, 2004**

(54) **HIGH THROUGHPUT PERMEABILITY TESTING OF MATERIALS LIBRARIES**

(22) Filed: **Oct. 18, 2002**

Publication Classification

(75) Inventors: **Damian A. Hajduk**, San Jose, CA (US); **Oleg Kolosov**, San Jose, CA (US)

(51) **Int. Cl.⁷ G01N 33/00**

(52) **U.S. Cl. 436/5; 436/43; 436/183**

Correspondence Address:

Scott A. Chapple

Dobrusin & Thennisch PC

Suite 311

401 South Old Woodward Avenue

Birmingham, MI 48009 (US)

(57) **ABSTRACT**

A library of material samples is screened for properties such as permeability. A library of material samples is provided. A stimulus such as an exposure to a permeate fluid is provided to each member of the library. A response of each of the material samples due to the stimulus is measured and the response, the stimulus or both are recorded and related to provide data. Thereafter, the data is analyzed to reach conclusions regarding the properties of the material samples.

(73) Assignee: **Symyx Technologies, Inc.**

(21) Appl. No.: **10/274,184**

