



US008283062B2

(12) **United States Patent**  
**Fischel**

(10) **Patent No.:** **US 8,283,062 B2**  
(45) **Date of Patent:** **\*Oct. 9, 2012**

(54) **ELECTROCHEMICAL CELLS UTILIZING TAYLOR VORTEX FLOWS**

(75) Inventor: **Halbert Fischel**, Santa Barbara, CA (US)  
(73) Assignee: **Global Energy Science, LLC**, Santa Barbara, CA (US)  
(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.  
This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/194,049**

(22) Filed: **Jul. 29, 2011**

(65) **Prior Publication Data**  
US 2012/0077100 A1 Mar. 29, 2012

**Related U.S. Application Data**

(62) Division of application No. 12/800,658, filed on May 20, 2010, now Pat. No. 8,017,261.

(60) Provisional application No. 61/220,583, filed on Jun. 26, 2009.

(51) **Int. Cl.**  
**H01M 2/38** (2006.01)  
**H01M 8/06** (2006.01)  
**H01M 8/04** (2006.01)  
**H01M 8/08** (2006.01)

(52) **U.S. Cl.** ..... **429/69; 429/416; 429/444; 429/451; 429/498**

(58) **Field of Classification Search** ..... **429/69, 429/416, 444, 451, 498**

See application file for complete search history.

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*Primary Examiner* — Basia Ridley  
*Assistant Examiner* — Jonathan G Leong  
(74) *Attorney, Agent, or Firm* — Sheldon L. Epstein; Malcolm J. Chisholm, Jr.; Pamela Curbelo

(57) **ABSTRACT**

Electrochemical cells (10), such as fuel cells (12) and fuel reformers (14), with rotating elements or electrodes (34, 24) that generate Taylor Vortex Flows (28, 50) and Circular Couette Flows (58) in fluids such as electrolytes and fuels are disclosed.

**39 Claims, 6 Drawing Sheets**

