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**Ross et al.**

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(54) **GRADIENT ELUTION ELECTROPHORESIS**  
(75) Inventors: **David J. Ross**, Silver Spring, MD (US);  
**Jonathan G. Shackman**, Philadelphia, PA (US)

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(73) Assignee: **The United States of America as represented by the Secretary of Commerce, The National Institute of Standards and Technology**, Washington, DC (US)

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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 826 days.

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*Primary Examiner* — Alex Nogueroles

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(74) *Attorney, Agent, or Firm* — Butzel Long

(65) **Prior Publication Data**

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(51) **Int. Cl.**  
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(57) **ABSTRACT**

(52) **U.S. Cl.** ..... **204/451**; 204/450; 204/549

A method for performing electrophoretic separation of ionic compounds which involves varying a bulk fluid flow through a separation path into which ionic species are continuously introduced and separated. The method can also include the introduction of a leading electrolyte into the separation path to form an ionic interface with the sample and an optional terminating electrolyte to enrich ionic species for higher detection resolution.

(58) **Field of Classification Search** ..... 204/601-605,  
204/451-455, 549

See application file for complete search history.

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**24 Claims, 6 Drawing Sheets**

