



(12) **United States Patent**  
**Hong et al.**

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(54) **BIODEGRADABLE, NON-THROMBOGENIC ELASTOMERIC POLYURETHANES**

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(71) Applicant: **University of Pittsburgh—Of the Commonwealth System of Higher Education**, Pittsburgh, PA (US)

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(72) Inventors: **Yi Hong**, Irving, TX (US); **William R Wagner**, Gibsonia, PA (US); **Sang-Ho Ye**, Pittsburgh, PA (US)

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(73) Assignee: **University of Pittsburgh—Of the Commonwealth System of Higher Education**, Pittsburgh, PA (US)

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(21) Appl. No.: **14/194,188**

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

(60) Provisional application No. 61/771,484, filed on Mar. 1, 2013.

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**A61L 31/10** (2006.01)  
**A61L 31/16** (2006.01)

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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

CPC .. **A61L 33/068**; **A61L 27/18**; **A61L 2300/416**; **A61L 2300/41**; **A61L 2300/404**; **A61L 2300/402**; **A61L 33/064**; **A61L 27/58**; **A61L 31/10**; **A61L 31/148**; **A61L 31/16**; **C08L 67/04**

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See application file for complete search history.

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*Primary Examiner* — Suzanne Ziska

(74) *Attorney, Agent, or Firm* — Bartony & Associates, LLC

(57) **ABSTRACT**

A method of forming an implantable article includes providing a biodegradable polymer including anti-thrombogenic groups along the length of the biodegradable polymer, biodegradable groups in the backbone of the biodegradable polymer and a plurality of functional groups adapted to react with reactive functional groups on a surface of the implantable article, and reacting at least a portion of the plurality of functional groups with the reactive functional groups on the surface of the implantable article.

**29 Claims, 15 Drawing Sheets**