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Bagoisan et al.

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(54) **APPARATUS AND METHODS FOR SEALING
A VASCULAR PUNCTURE**

(56) **References Cited**

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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 299 days.

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(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 12/098,380, filed on Apr. 4, 2008, now Pat. No. 8,029,533.

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(51) **Int. Cl.**
A61B 17/00 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.**
CPC ... **A61B 17/0057** (2013.01); **A61B 2017/00557** (2013.01); **A61B 2017/00601** (2013.01); **A61B 2017/00619** (2013.01); **A61B 2017/00623** (2013.01); **A61B 2017/00654** (2013.01); **A61B 2017/00898** (2013.01)

Apparatus and methods for sealing a puncture through tissue includes an introducer sheath sized for introduction into a puncture, cartridge sized for insertion into the introducer carrying a sealant, and a locking element for coupling the introducer sheath to the cartridge. When the cartridge is advanced into the introducer sheath, the locking element couples the introducer sheath to the cartridge such that subsequent retraction of the cartridge causes the introducer sheath to retract, thereby deploying the sealant from the cartridge within the puncture beyond the introducer sheath.

(58) **Field of Classification Search**
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See application file for complete search history.

14 Claims, 14 Drawing Sheets

