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(54) **INTRALUMINAL PROSTHESES HAVING POLYMERIC MATERIAL WITH SELECTIVELY MODIFIED CRYSTALLINITY AND METHODS OF MAKING SAME**

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(51) **Int. Cl.<sup>7</sup>** ..... **B29C 71/02**

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(58) **Field of Search** ..... 623/1.1; 428/36.9; 264/235, 346

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(57) **ABSTRACT**

Methods of manufacturing polymeric intraluminal prostheses include annealing the polymeric material to selectively modify the crystallinity thereof. Annealing may be utilized to selectively modify various properties of the polymeric material of an intraluminal prosthesis, including: selectively increasing the modulus of the polymeric material; selectively increasing the hoop strength of the intraluminal prosthesis; selectively modifying the elution rate (increase or decrease) of a pharmacological agent subsequently disposed on or within the annealed polymeric material; selectively increasing/decreasing stress in the intraluminal prosthesis; and selectively modifying the polymeric material such that it erodes at a different rate.

**162 Claims, 3 Drawing Sheets**

