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Balazs et al.

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[54] POLYMERIC ARTICLES MODIFIED WITH HYALURONATE

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525/54.2

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424/82, 83; 524/29

[56] References Cited

U.S. PATENT DOCUMENTS

4,272,522 6/1981 Balazs 424/94
4,349,467 9/1982 Williams 525/54.2

4,415,490 11/1983 Joh 525/54.2

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[57] ABSTRACT

Polymeric materials (and articles made therefrom) including polyurethanes, polyesters, polyolefins, polyamides, polysiloxanes, vinylic and acrylic polymers are rendered biocompatible by including with the polymeric material hyaluronic acid or a salt thereof. The hyaluronic acid may be coated onto the surface of the polymeric material, dispersed throughout the body of the polymeric material, or both. The hyaluronic acid on the surface of the polymeric material may optionally be cross-linked. The biocompatible polymeric materials are used in the making of various prosthetic devices including heart valves, intraocular lenses, vascular grafts, pacemaker leads and the like.

5 Claims, No Drawings