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# United States Patent [19]

Ito et al.

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[54] HIRUDIN-COATED BIOCOMPATIBLE SUBSTANCE

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[58] **Field of Search** ..... 424/423–426, 424/443; 523/112, 113; 604/266

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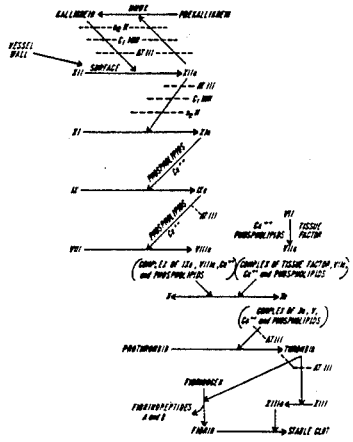
[57] **ABSTRACT**

Disclosed is a biocompatible, thromboresistant substance useful for implantable and extracorpeoreal devices in contact with the vascular system, and methods for producing the same. The biocompatible, thromboresistant substance comprises a synthetic, biocompatible material, at least one biocompatible base coat layer adhered to at least one surface of the material, and a thrombogenesis inhibitor immobilized on the base coat layer via a component capable of binding the inhibitor. The thrombogenesis inhibitor is hirudin, or an active analog or fragment thereof.

**35 Claims, 2 Drawing Sheets**