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[54] **MEDICAL DEVICES CONTAINING IN-SITU GENERATED MEDICAL COMPOUNDS**

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[58] **Field of Search** 128/898; 427/2.25, 427/2.3, 2.31, 2.28, 343, 353, 419.8, 2.13, 430.1; 424/423, 445, 617, 619, 630; 623/1, 12; 604/8, 304, 96, 265; 606/192, 154, 198; 600/29, 36

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[57] **ABSTRACT**

A process for impregnating a medical device made from a water absorbable polymer material, e.g., a hydrogel, with a medical compound having low solubility in aqueous solutions, e.g., an antiseptic or radiopaque compound, is disclosed. The device is first infiltrated with an aqueous solution containing a first water soluble, ionizable compound, and subsequently infiltrated with an aqueous solution containing a second water soluble, ionizable compound. The ionizable compounds are selected such that they react after mutual contact to form the medical compound in-situ within the device.

52 Claims, No Drawings