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[54] EMBOLIZATION PLUGS FOR BLOOD VESSELS

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[52] U.S. Cl. **606/192**; 514/773; 128/DIG. 8

[58] Field of Search 604/11, 55, 368, 604/369; 128/831, 843, 899, DIG. 8; 606/191-194, 154; 514/801, 773

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[57] ABSTRACT

A bioresorbable and hemostatic plug for embolization made from a collagen piece is compressed so as to be longitudinally insertable into a tubular biological vessel such as a blood vessel to be occluded. The collagen piece is capable of expanding radially inside the vessel by absorbing fluid such as the blood and thereby providing mechanical fixation in and occlusion of the vessel. Two such collagen pieces may be used with a spacer of a different material in between. Different kinds of therapeutic agents can be bonded to or physically absorbed by the collagen pieces so as to be delivered to the site of occlusion.

21 Claims, No Drawings