

Title (en)

CONTROL OF THE DEGRADATION OF BIODEGRADABLE IMPLANTS USING A COATING

Title (de)

DEGRADATIONSSTEUERUNG BIODEGRADIERBARER IMPLANTATE DURCH BESCHICHTUNG

Title (fr)

COMMANDE DE LA DEGRADATION D'IMPLANTS BIODEGRADABLES AU MOYEN D'UN REVETEMENT

Publication

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Application

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Abstract (en)

[origin: WO2005065576A1] The invention relates to an endovascular implant, which is at least largely biodegradable and whose in vivo degradation can be controlled. To achieve this, the implant comprises a tubular base body, open on its end faces and consisting of at least one biodegradable material, said base body having an in vivo, location-dependent first degradation characteristic D1(x), in addition to a coating that covers the base body completely or in sections and consists of a biodegradable material, said coating having an in vivo, location-dependent second degradation characteristic D2(x). According to the invention, a location-dependent cumulative degradation characteristic D(x) in one location (x) is made up of the sum of the respective degradation characteristics D1(x) and D2(x) in said location (x) and the location-dependent cumulative degradation characteristic D(x) is predetermined by a variation of the second degradation characteristic D2(x) in such a way that the degradation in the given location (x) of the implant takes place over a predeterminable time period at a predeterminable degradation rate.

IPC 8 full level

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