

Title (en)
NITRIC OXIDE-PRODUCING HYDROGEL MATERIALS

Title (de)
STICKSTOFFMONOXID-FORMENDE HYDROGEL-MATERIALIEN

Title (fr)
MATERIAUX HYDROGELS PRODUISANT DU MONOXYDE D'AZOTE

Publication
EP 1194171 A2 20020410 (EN)

Application
EP 00959750 A 20000901

Priority
• US 0024058 W 20000901
• US 15205499 P 19990902

Abstract (en)
[origin: WO0115738A2] Hydrogels releasing or producing NO, most preferably photopolymerizable biodegradable hydrogels capable of releasing physiological amounts of NO for prolonged periods of time, are applied to sites on or in a patient in need of treatment thereof for disorders such as restenosis, thrombosis, asthma, wound healing, arthritis, penile erectile dysfunction or other conditions where NO plays a significant role. The hydrogels are typically formed of macromers, which preferably include biodegradable regions, and have bound thereto groups that are released <i>in situ</i> to elevate or otherwise modulate NO levels at the site where treatment is needed. The macromers can form a homo or hetero-dispersion or solution, which is polymerized to form a hydrogel material, that in the latter case can be a semi-interpenetrating network or interpenetrating network. Compounds to be released can be physically entrapped, covalently or ionically bound to macromer, or actually form a part of the polymeric material. The hydrogel can be formed by ionic and/or covalent crosslinking. Other active agents, including therapeutic, prophylactic, or diagnostic agents, can also be included within the polymeric material.

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A61K 47/48

IPC 8 full level
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CPC (source: EP)
A61K 47/58 (2017.07); **A61K 47/6903** (2017.07)

Citation (search report)
See references of WO 0115738A2

Citation (examination)
US 5797887 A 19980825 - ROSEN GERALD M [US], et al

Designated contracting state (EPC)
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DOCDB simple family (application)
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