

Title (en)

THERMALLY REVERSIBLE POLYURETHANE HYDROGELS AND COSMETIC, BIOLOGICAL AND MEDICAL USES

Publication

EP 0401210 A4 19901227 (EN)

Application

EP 88902003 A 19880201

Priority

US 8800280 W 19880201

Abstract (en)

[origin: WO8907117A1] Thermally reversible polyurethane hydrogels are formed by adding water to a gel forming hydrophilic polyurethane polymer produced by reacting under anhydrous conditions an organic diisocyanate with a glycol component in an NCO/OH mole ratio of from about 0.5/1 to about 1/1 wherein the percentage by weight of the diisocyanate in the reaction mixture is from about 2 % to about 25 %. The hydrogels are solids at room temperature but liquify at higher temperatures such as body temperature and therefore are useful as carriers for the protection, delivery and sustained release of a variety of active agents including pharmaceuticals, cosmetics, living cells and organisms.

IPC 1-7

C08G 18/30; A61K 31/00

IPC 8 full level

A61K 8/04 (2006.01); **A61K 8/87** (2006.01); **A61K 9/20** (2006.01); **A61L 26/00** (2006.01); **A61Q 17/00** (2006.01); **A61Q 19/00** (2006.01); **C08G 18/48** (2006.01); **C08G 18/66** (2006.01); **C08G 18/75** (2006.01)

CPC (source: EP)

A61K 8/042 (2013.01); **A61K 8/87** (2013.01); **A61K 9/2031** (2013.01); **A61L 26/0019** (2013.01); **A61L 26/008** (2013.01); **A61Q 13/00** (2013.01); **A61Q 15/00** (2013.01); **A61Q 17/00** (2013.01); **A61Q 19/00** (2013.01); **C08G 18/4833** (2013.01); **C08G 18/6674** (2013.01); **C08G 18/758** (2013.01); **C08G 2210/00** (2013.01)

C-Set (source: EP)

A61L 26/0019 + C08L 75/04

Citation (search report)

- [X] EP 0043974 B1 19840620
- [E] GB 2203158 A 19881012 - TYNDALE PLAINS HUNTER LTD
- [A] EP 0117768 A1 19840905 - ESSILOR INT [FR]
- See references of WO 8907117A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 8907117 A1 19890810; EP 0401210 A1 19901212; EP 0401210 A4 19901227

DOCDB simple family (application)

US 8800280 W 19880201; EP 88902003 A 19880201