Recent patent applications related to drug delivery

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
WO 200428571	An endolumenal stent assembly, to be implanted in blood vessels, that has enlargements provided on the outer surfaces of strut segments that are separated by respective end crowns. The stent provides increased drug delivery into the expanded gaps between adjacent crowns.	Medlogics Device Corp. (San Carlos, CA, USA)	Maier NC, Peacock JC	3/30/2003	4/8/2004
WO 200428504	A dosage form comprising at least one active ingredient, a core and a shell that resides upon at least a portion of the core's outer surface; useful for optimizing drug delivery and enhancing patient compliance.	McNeil-PPC (New Brunswick, NJ, USA)	Li S	9/28/2002	4/8/2004
US 20040067587	A method for generating multilayer particles used for drug delivery by condensing a polymer with an oppositely charged polymer to form a particle, and sequentially adding oppositely charged polymers to the particle, forming at least three layers of polymers.	Budker VG; Hagstrom JE; Klein J; Trubetskoy VS; Wolff JA; Wong SC	Budker VG, Hagstrom JE, Klein J, Trubetskoy VS, Wolff JA, Wong SC	10/4/2002	4/8/2004
US 20040064099	A drug delivery system comprising a delivery catheter having proximal and distal ends, and a delivery lumen for receiving a cannula of a syringe. The delivery lumen has a distal end through which the cannula extends for administering drugs or substances to a body vessel.	Chiu JG	Chiu JG	9/30/2002	4/1/2004
WO 200424778	A self-assembled composition comprising a luminescent guest species (e.g., zinc oxide) and a self-assembling dendron rod coil molecule forming an elongated ribbon or gel structure that is birefringent. The guest species is distributed within the self-assembled structure, which has potential applications as biomaterial scaffolds for tissue engineering or drug delivery, coatings for carbon nanotubes for improved manipulation, and as templates for growth of inorganic minerals.	Northwestern University (Evanston, IL, USA)	Beniash E, Li L, Stupp SI, Zubarev ER	7/23/2002	3/25/2004
WO 200422603	A hyaluronic acid derivative that has a chemical structure with hyaluronic acid crosslinked to glycol polymer by amide bonds; used as biocompatible materials for postoperative adhesion-prevention gel, dermal augmentation, correction of facial wrinkles, osteoarthritic viscosupplement, plastic surgery and drug delivery.	LG Life Sciences (Seoul, S. Korea)	Cho KY, Kim JH, Lee JY, Min BH, Moon TS	9/3/2002	3/18/2004
WO 200422138	A drug injector comprising a nozzle in fluid communication with a chamber for holding a drug to be injected; a piston positioned within the chamber; and an actuator coupled to the piston and including wire(s) of shape memory material contracting when a potential is applied to the wire(s).	Massachusetts Institute of Technology (Cambridge, MA, USA)	Dyer R, Hunter IW	9/5/2003	3/18/2004
US 20040048796	A method for preparing a collagen biofabric from a placenta having an amniotic membrane and a chorionic membrane, involving separating the amniotic membrane from the chorionic membrane and decellularizing the amniotic membrane such that it is not contacted with an enzyme; useful for drug delivery.	Hariri RJ; Kaplunovsky AM; Murphy PA	Hariri RJ, Kaplunovsky AM, Murphy PA	3/26/2003	3/11/2004
US 20040043171	A multilaminate backing construction that has an outer layer comprising an embossable and writable material, a tie layer on the skin proximal surface of the outer layer and a base layer on the skin proximal surface of the tie layer; for use as a transdermal drug delivery system.	Audett JD; ALZA Corp. c/o Johnson & Johnson (New Brunswick, NJ, USA)	Audett JD	8/30/2002	3/4/2004
JP 2004002511	A chitosan nanoparticle comprising raw material of chitosan containing an amino group and not containing a residual additive; for use as a film forming agent and sustained release drug delivery system.	Fuji Powder (Tokyo); Fukumori Y	–	5/31/2002	1/8/2004

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