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(71) Applicant (for all designated States except US): **DURECT CORPORATION** [US/US]; 10240 Bubb Road, Cupertino, CA 95014 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **THEEUWES, Felix** [BE/US]; 27350 Altamont Road, Los Altos Hills, CA 94022 (US). **YUM, Su, II** [US/US]; 1021 Runnymede Court, Los Altos, CA 94024 (US).

(74) Agent: **FRANCIS, Carol, L.**; BOZICEVIC, FIELD & FRANCIS LLP, 200 Middlefield Road, Suite 200, Menlo Park, CA 94025 (US).

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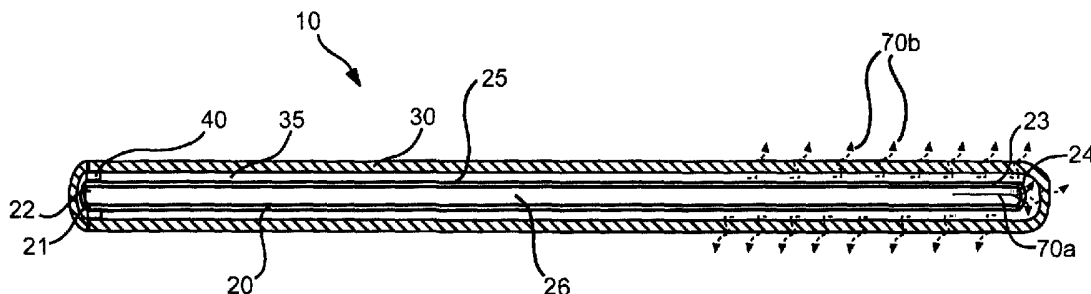
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(54) Title: LOCAL CONCENTRATION MANAGEMENT SYSTEM



(57) **Abstract:** The invention provides a local concentration management system (LCMS) for delivery of highly concentrated therapeutic agent formulations. The LCMS comprises a device comprising an elongate body (20) defining a lumen (26) between its proximal (21) and distal (23) ends, and a diffuser element (30), a dilutor element (60), or both. The diffuser element, which is selectively permeable to the agent, is operatively associated with the elongate body (20) so that agent flows through the elongate body, and into and through the diffuser element to exit the system. The dilutor element can be operatively associated with the system to be in fluid communication with the elongate body lumen, a diffusion space defined by a diffuser element inner wall, or both. The dilutor element is selectively water permeable, but substantially impermeable to agent, to provide for dilution of the agent during transit through the system. The LCMS system is designed to disperse and/or dilute the drug delivery stream.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A 61 M 29/00

US CL : 604/103.01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 604/103.01, 103.02, 103.03, 103.06, 103.07, 103.08, 103.11, 103.12, 103.13, 103.14, 104, 96.01, 97.01, 93.01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,437,856 A (Valli) 20 March 1984, see entire document.	1-24 and 26-28

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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 Name and mailing address of the ISA/US
 Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

ANN YEN LAM

Telephone No. (703) 306-5560