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(54) Title: AQUEOUS SUSTAINED-RELEASE DRUG DELIVERY SYSTEM FOR HIGHLY WATER-SOLUBLE ELECTROLYTIC DRUGS

(57) Abstract: The present invention relates to liquid sustained release suspension dosage forms comprising ionized forms of water-soluble drugs. In particular, the invention encompasses a liquid form controlled release drug composition comprising a dispersed phase comprising an ion-exchange matrix drug complex comprising a pharmaceutically acceptable ion-exchange matrix and a water-soluble electrolytic drug associated with the ion-exchange matrix, wherein the surface charge of the ion-exchange matrix is opposite that of the electrolytic drug and a dispersion medium substantially free of diffusible counterions, further comprising a polyelectrolyte having the same charge as the electrolytic drug. The invention also provides methods for preparing such compositions and methods of treatment.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER																						
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B. FIELDS SEARCHED																						
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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 4,894,239 A (NONOMURA et al) 16 January 1990 (16.01.1990), abstract, columns 1-15 and claims 1-13.	1-22																				
Y	CUNA et al. Controlled-release liquid suspensions based on ion-exchange particles entrapped within acrylic microcapsules, International Journal of Pharmaceutics, 2000, Vol. 199, pages 151-18, see the entire article.	1-22																				
Y	JANI et al. Ion exchange resins for ophthalmic delivery. Journal of Ocular Pharmacology. Spring 1994, Vol. 10, Issue 1, pages 57-67, see entire document..	1-22																				
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