

Title (en)  
LIPOSOMES WITH ENHANCED RETENTION ON MUCOSAL TISSUE.

Title (de)  
LIPOSOME MIT VERBESSERTER BINDUNG AN SCHLEIMGEWEBE.

Title (fr)  
LIPOSOMES A RETENTION AMELIOREE SUR DU TISSU MUQUEUX.

Publication  
**EP 0316345 A4 19890516 (EN)**

Application  
**EP 87905136 A 19870728**

Priority  
• US 89081586 A 19860728  
• US 89081786 A 19860728

Abstract (en)  
[origin: WO8800824A1] A liposome composition designed for enhanced binding to mucosal tissue. The liposomes contain about 10-40 mole percent of an amine-derivatized lipid component in which a charged amine group is spaced from a lipid polar head region by a carbon-containing spacer arm at least 3 atoms in length. The liposomes preferably have a close packed lipid structure produced by inclusion of between of between 20-50 mole percent of cholesterol or an amine-derivatized cholesterol, and/or phospholipids with predominantly saturated acyl chain moieties. For ophthalmic use, the liposomes may be suspended in an aqueous medium containing a high-viscosity polymer, to enhance further the retention of liposomes on a corneal surface.

IPC 1-7  
**A61K 9/52; A61K 9/66; B01J 13/02**

IPC 8 full level  
**A61K 9/127** (2006.01)

CPC (source: EP)  
**A61K 9/1271** (2013.01)

Citation (search report)  
• [A] WO 8302069 A1 19830623 - UNIV CALIFORNIA [US]  
• [A] US 4235792 A 19801125 - HSIA JEN C [CA], et al  
• [A] CHEMICAL ABSTRACTS, vol. 101, no. 14, 1st October 1984, page 349, abstract no. 116680e, Columbus, Ohio, US; K. SINGH et al.: "Liposomal ophthalmic drug delivery system. II. Dihydrostreptomycin sulfate", & INT. J. PHARM. 1984 19(3), 263-9  
• See references of WO 8800824A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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