

Title (en)  
THE PROCESS FOR MANUFACTURING TOPICAL OPHTHALMIC PREPARATIONS WITHOUT SYSTEMIC EFFECTS

Title (de)  
VERFAHREN ZUR HERSTELLUNG TOPISCHER OPHTALMISCHER PRÄPARATE OHNE SYSTEMISCHE EFFEKTE.

Title (fr)  
PROCEDE DE PRODUCTION DE PREPARATIONS OPHTALMIQUES A USAGE LOCAL SANS EFFET SYSTEMIQUE

Publication  
**EP 1139970 A2 20011010 (EN)**

Application  
**EP 00925571 A 20000202**

Priority  
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• IN 90BO1999 A 19990203

Abstract (en)  
[origin: WO0049990A2] For treating eye diseases, various kinds of medications are used. They are used in form of topical preparations or in form of systemic preparations to be taken orally or parenterally. Of topical preparations some are for topical use only e.g. framycetin, neomycin, loteprednol ebanoate, etc. However, large majority of topical ophthalmic drugs are for systemic use also, e.g.. Ciprofloxacin, Gentamicin, Timolol, Clonidine, Dexamethasone, Betamethasone, Carbachol, etc. Some of these drugs when used topically are also found to have systemic effects and if they are of serious nature limits the use of that drug, e.g. cardiopulmonary effects of B-blockers like timolol. Dryness of mouth, flush, fever, tachy cardia, urinary retention, convulsion irritability with atropine. Hypertension with phenylephrine. Increased salivation, nausea, vomiting, diarrhea, stomach cramps, bronchial secretions, bronchial constriction, asthma, bradycardia, paresthesia with miotics, Hypotension with clonidine. Dry mouth, fatigue and drowsiness with apraclonidine and brimonidine.  
[origin: WO0049990A2] The invention relates to topical ophthalmic preparations resp. a process for manufacturing the same using polymers in such a way that they have desired topical effects but no systemic effects. The polymers (e.g. polyacrylic acids, hydroxyethyl cellulose, etc.) used for this purpose have pseudo-plastic, mucoadhesive and viscosity enhancing properties.

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**A61K 9/0048** (2013.01); **A61P 27/02** (2017.12); **A61K 47/32** (2013.01); **A61K 47/36** (2013.01)

Citation (search report)  
See references of WO 0049990A2

Citation (examination)  
GB 2007091 A 19790516 - TOKO YAKUHIN KOGYO KK

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