

Title (en)  
CONTACT LENS MATERIAL

Title (de)  
MATERIAL FÜR KONTAKTLINSEN

Title (fr)  
MATIERES POUR LENTILLES DE CONTACT

Publication  
**EP 1109846 A1 20010627 (EN)**

Application  
**EP 99930948 A 19990713**

Priority  
• AU 9900575 W 19990713  
• AU PP463998 A 19980713

Abstract (en)  
[origin: WO0004065A1] The invention relates to a polymer having high oxygen permeability and to hydrated compositions including such polymer particularly in the form of a contact lens. The invention consists in a polymer including the polymerisation product of (a) N,N-dimethylacrylamide, and (b) a monomer of formula (I) wherein n is an integer from 1 to 8, preferably 4 to 8, R' is an alkyl group, preferably a lower alkyl group containing up to 4 carbon atoms, more preferably ethyl or butyl, and R" is hydrogen or an alkyl group which may be the same as or different from R', preferably hydrogen or a lower alkyl group containing up to 4 carbon atoms, more preferably hydrogen or methyl. In conjunction with the DMA monomer and monomer(s) of formula (I), one or more additional monomers may be included selected from the group consisting of: styrene and styrene derivatives, methacrylates - especially 3-[tris(trimethylsilyloxy)silyl] propyl methacrylate (TRIS), acrylates, acrylamides, methacrylamides, vinyl pyrrolidone, vinyl monomers containing phosphoryl choline functional groups, and partly or fully fluorinated derivatives of the foregoing.

IPC 1-7  
**C08F 220/56**; **C08F 220/38**; **G02B 1/04**

IPC 8 full level  
**G02C 7/04** (2006.01); **C08F 220/38** (2006.01); **C08F 220/54** (2006.01); **C08F 220/56** (2006.01); **G02B 1/04** (2006.01)

CPC (source: EP KR US)  
**C08F 212/08** (2013.01 - KR); **C08F 212/12** (2013.01 - KR); **C08F 220/18** (2013.01 - KR); **C08F 220/22** (2013.01 - KR);  
**C08F 220/387** (2020.02 - EP KR US); **C08F 220/54** (2013.01 - EP KR); **C08F 220/56** (2013.01 - KR); **C08F 226/10** (2013.01 - KR);  
**C08F 230/08** (2013.01 - KR); **G02B 1/043** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 0004065A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0004065 A1 20000127**; AU PP463998 A0 19980806; CA 2337173 A1 20000127; EP 1109846 A1 20010627; JP 2002520456 A 20020709;  
KR 20010074704 A 20010809

DOCDB simple family (application)  
**AU 9900575 W 19990713**; AU PP463998 A 19980713; CA 2337173 A 19990713; EP 99930948 A 19990713; JP 2000560170 A 19990713;  
KR 20017000524 A 20010112