

Title (en)
SILICONE HYDROGELS AND METHODS FOR MANUFACTURE

Title (de)
SILIKONHYDROGELE UND HERSTELLUNGSVERFAHREN

Title (fr)
HYDROGELS DE SILICONE ET LEURS PROCÉDÉS DE FABRICATION

Publication
EP 2807198 A1 20141203 (EN)

Application
EP 12790945 A 20121113

Priority

- US 201213360568 A 20120127
- GB 2012052812 W 20121113

Abstract (en)
[origin: WO2013110911A1] Silicone hydrogels, ophthalmic lenses made therefrom, and methods of making the same are described. Fully hydrated silicone hydrogels have relatively high water content and oxygen permeability, along with relatively low modulus of elasticity. Embodiments of the silicone hydrogels in substantially dehydrated condition are adapted to lathe cutting at or above room temperature. The silicone hydrogels include silicon-containing monomers in an amount 10% by weight or greater than, such as greater 25% by weight, a hydrophilic substituted N-vinyl acetamide monomer in an amount greater than 30% by weight, and a hydrophilic non-acetamide monomer in an amount resulting in a hydrophilic substituted N- vinyl acetamide monomer to hydrophilic non-acetamide monomer weight to weight ratio of greater than 2.1 to 1.

IPC 8 full level
C08F 226/02 (2006.01); **C08F 230/08** (2006.01); **G02B 1/04** (2006.01)

CPC (source: EP US)
C08F 226/02 (2013.01 - EP); **C08F 230/08** (2013.01 - EP US); **G02B 1/043** (2013.01 - EP US); **C08F 220/14** (2013.01 - EP); **C08F 220/40** (2013.01 - EP); **C08F 222/102** (2020.02 - EP US); **C08F 226/10** (2013.01 - EP)

C-Set (source: EP)
1. **G02B 1/043 + C08L 101/14**
2. **G02B 1/043 + C08L 83/04**

Citation (search report)
See references of WO 2013110911A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013110911 A1 20130801; EP 2807198 A1 20141203

DOCDB simple family (application)
GB 2012052812 W 20121113; EP 12790945 A 20121113