

Title (en)
OPHTHALMIC DEVICES

Title (de)
OPHTHALMISCHE VORRICHTUNGEN

Title (fr)
DISPOSITIFS OPHTALMIQUES

Publication
EP 3834018 A1 20210616 (EN)

Application
EP 18765235 A 20180810

Priority
US 2018046219 W 20180810

Abstract (en)
[origin: WO2020032973A1] An ophthalmic device is disclosed that is a polymerization product of a monomeric mixture comprising: (a) a major amount of one or more non-silicone- containing hydrophilic monomers; (b) a crosslinking agent mixture comprising (i) one or more first crosslinking agents containing at least two ethylenically unsaturated reactive end groups, wherein the at least two ethylenically unsaturated reactive end groups are (meth)acrylate-containing reactive end groups and (ii) one or more second crosslinking agents containing at least two ethylenically unsaturated reactive end groups wherein at least one of the ethylenically unsaturated reactive end groups is a non-(meth)acrylate reactive end group, and (c) one or more hydrophilic polymers or copolymers comprising one or more hydrophilic units and a thio carbonyl thio fragment of a reversible addition fragmentation chain transfer ("RAFT") agent wherein the ophthalmic device has an equilibrium water content of at least about 45 weight percent.

IPC 8 full level
G02B 1/04 (2006.01)

CPC (source: EP KR)
C08F 220/56 (2013.01 - KR); **C08F 226/10** (2013.01 - KR); **C08J 3/075** (2013.01 - KR); **C08K 5/11** (2013.01 - KR);
G02B 1/043 (2013.01 - EP KR); **G02C 7/049** (2013.01 - KR)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020032973 A1 20200213; CA 3107771 A1 20200213; CN 112930487 A 20210608; CN 112930487 B 20240702; EP 3834018 A1 20210616; JP 2021535447 A 20211216; JP 7357056 B2 20231005; KR 102551113 B1 20230704; KR 20210042376 A 20210419

DOCDB simple family (application)
US 2018046219 W 20180810; CA 3107771 A 20180810; CN 201880096494 A 20180810; EP 18765235 A 20180810; JP 2021531444 A 20180810; KR 20217007301 A 20180810