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(74) Agent: **ZHOU, Jian, S.**; CIBA VISION Corporation,
Patent Department, 11460 Johns Creek Parkway, Duluth,
Georgia 30097 (US).

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(71) Applicant (for all designated States except US): **NO-
VARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel
(CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **QIU, Yongxing**
[US/US]; 540 Stedford Lane, Duluth, Georgia 30097
(US). **SAMUEL, Newton, T.** [IN/US]; 315 Friars Head
Drive, Suwanee, Georgia 30024 (US). **PRUITT, John,**
Dallas [US/US]; 5060 Winding Rose Drive, Suwanee,
Georgia 30024 (US). **KOLLURU, Chandana** [IN/US];
1105 Goldenrod Lane, Suwanee, Georgia 30024 (US).
MEDINA, Arturo, N. [US/US]; 4021 McGinnis Ferry
Road, #2222, Suwanee, Georgia 30024 (US). **WINTER-
TON, Lynn, Cook** [US/US]; 840 Lucust Grove Court,
Alpharetta, Georgia 30004 (US). **WU, Daqing** [CN/US];
920 Rockbass Road, Suwanee, Georgia 30024 (US).
QIAN, Xinming [CN/US]; 11720 Bentham Court, Johns
Creek, Georgia 30005 (US). **NELSON, Jared** [US/US];
1012 Holly Meadow Drive, Buford, Georgia 30518 (US).

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(54) Title: A SILICONE HYDROGEL LENS WITH A CROSSLINKED HYDROPHILIC COATING

(57) Abstract: A cost-effective method for making a silicone hydrogel contact lens has a crosslinked hydrophilic coating applied thereon. The method involves heating a silicone hydrogel contact lens in an aqueous solution in the presence of a water-soluble, highly branched, thermally- crosslinkable hydrophilic polymeric material having positively-charged azetidinium groups, and at a temperature from 40 Centigrade to 140 Centigrade for a period of time sufficient to covalently attach the thermally-crosslinkable hydrophilic polymeric material onto the surface of the silicone hydrogel contact lens through covalent linkages each formed between one azetidinium group and one of the reactive functional groups on and/or near the surface of the silicone hydrogel contact lens, thereby forming a crosslinked hydrophilic coating on the silicone hydrogel contact lens. Such method can be advantageously implemented directly in a sealed lens package during autoclave.



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