

(12) **United States Patent**
Havenstrite et al.

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(54) **CONTACT LENS WITH A HYDROPHILIC LAYER**

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See application file for complete search history.

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(51) **Int. Cl.**
G02C 7/04 (2006.01)
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(57) **ABSTRACT**

Embodiments of the technology relate to a contact lens having a core that is coated by a hydrogel layer, and to methods of making such a lens. The coated lens can include a rigid gas permeable contact lens. The coated lens can also include a hybrid silicone and rigid gas permeable contact lens. In one aspect, embodiments provide for a coated contact lens comprising a lens core with a water equilibrium constant of less than about 2% comprising an outer surface; and a hydrogel layer covalently attached to at least a portion of the outer surface, the hydrogel layer adapted to contact an ophthalmic surface, wherein the hydrogel layer comprises a hydrophilic polymer population of one or more species.

(52) **U.S. Cl.**
CPC **G02C 7/049** (2013.01); **G02B 1/043** (2013.01); **G02C 2202/16** (2013.01)

(58) **Field of Classification Search**
CPC G02C 7/04; G02C 7/022; G02C 2202/14

12 Claims, 50 Drawing Sheets

