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## Electromechanical Reshaping Electrode/Corneal-Contact Lens

Tech ID: 34609 / UC Case 2026-633-0

### BRIEF DESCRIPTION

A novel transparent contact lens device enabling real-time monitoring of corneal curvature during electrochemical vision therapy.

### FULL DESCRIPTION

This technology integrates an electrode with a corneal-contact lens to provide real-time, in situ monitoring of corneal shape, transparency, thickness, and hydration levels during refractive or opacity-clearing electrochemical treatments. Utilizing optical coherence tomography or similar imaging techniques, it offers continuous feedback for precise dosing and optimized therapeutic outcomes in both office and operating room settings.

### SUGGESTED USES

- » Refractive surgery and vision correction treatments
- » Corneal opacity and scarring therapies
- » Ophthalmic diagnostic and monitoring devices
- » Electrochemical therapeutic platforms in ophthalmology
- » Advanced eye care products for clinics and hospitals

### ADVANTAGES

- » Enables continuous real-time monitoring of corneal parameters during treatment
- » Combines electrochemical therapy with advanced imaging feedback
- » Non-invasive and transparent contact lens design
- » Suitable for both office-based and operating room environments
- » Improves precision and efficacy of refractive and opacity-clearing therapies

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### OTHER INFORMATION

#### CATEGORIZED AS

- » **Biotechnology**
- » Other
- » **Materials & Chemicals**
- » Chemicals
- » **Medical**
- » Devices
- » Disease: Ophthalmology and Optometry
- » Other
- » Therapeutics

#### RELATED CASES

2026-633-0

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