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(54) Title: IMPROVED AUTOMATIC SURGICAL DEVICE FOR CUTTING A CORNEA

(57) Abstract

This invention is a surgical device (10) for cutting substantially across a cornea of an eye of a patient, the device including a positioning ring (32) structured to be temporarily attached to a portion of the eye surrounding the cornea to be cut, and defining an aperture (33) sized to receive and expose the cornea to be cut. The surgical device (10) further includes a cutting head assembly (50) structured to be guided and driven over an upper surface of the positioning ring in a generally arcuate path, having a cutting element (70) positioned therein and structured to oscillate laterally to facilitate smooth and effective cutting of the cornea. The cutting head assembly (50) is structured to be detachably coupled to the positioning ring (32) by a coupling member.

