CLAIMS

1. A contact lens apparatus for controlled healing of ocular erosions, the apparatus comprising:

an optical surface comprising an energizable controller capable of being programmed to transmit energy from an energy source onto/into an ocular surface, through the use of a generator in electrical connection with energy emitting contacts capable of transmitting an electric field;

wherein the energy of the energy source is received by the apparatus wirelessly through an RF antenna located within the apparatus;

wherein the RF antenna is configured to receive energy wirelessly from a device in proximity to the apparatus, the device containing the energy source; and

wherein the controller, the RF antenna, generator and energy emitting contacts are biocompatible or encapsulated by a conductive biocompatible layer to allow positioning of said apparatus in an ocular surface.

2. The apparatus of claim 1, wherein the generator comprises a current generator.

3. The apparatus of claim 1 wherein the generator comprises one of a controlled voltage source, controlled current source, or an AC generator.

4. The apparatus of claim 1, wherein the optical surface has an optical power other than about 0.

5. The apparatus of claim 1, wherein the energy is stored in a battery embedded in the apparatus.

6. The apparatus of claim 5, wherein the battery is embedded using stacked integrated component device packaging technologies.

7. The apparatus of claim 1, wherein the device is a pair of glasses.

8. The apparatus of claim 1, wherein the device is a patch.

9. The apparatus of claim 1, additionally comprising a reservoir capable of containing an active drug to be delivered in a predetermined manner.

10. The apparatus of claim 1, additionally comprising one or more sensors capable of measuring changes in the naturally emitted electric field by the ocular erosions.

11. The apparatus of claim 10, additionally capable of delivering an active drug upon the sensor's detection of a change in electric field threshold signaling an infection.

12. The apparatus of claim 9, wherein the reservoir contains an active drug comprising an analgesic.

13. The apparatus of claim 9, wherein the reservoir contains an active drug comprising an antiviral agent.

14. The apparatus of claim 9, wherein the reservoir contains an active drug comprising an anti-infective agent.