

CLAIMS

1. A method of dispensing a liquid in an eye, the method comprising:
5 positioning an automated pump proximate to an eye;
 positioning a sensor in a position to detect a first state of an eye and a
 second state of an eye;
 generating a signal indicating that the eye is in one of said first state and
 said second state; and
10 dispensing a liquid via the automated pump with timing based upon the
 signal indicating that the eye is in one of said first state and said second state.
2. The method of claim 1 wherein the sensor comprises an emitter emitting a
15 signal in a predetermined wavelength.
3. The method of claim 2 wherein the sensor additionally comprises a detector
 capable of detecting a signal in the predetermined wavelength.
4. The method of claim 3 wherein the sensor generates the signal indicating if the
20 eye is in the first state or the second state.
5. The method of claim 1 additionally comprising the step of aligning the eye with
 the automated pump via an alignment apparatus.
- 25 6. The method of claim 5 wherein the alignment apparatus comprises a line of
 sight.
7. The method of claim 6 wherein the alignment apparatus additionally comprises
 an alignment fixture.
- 30 8. The method of claim 6 additionally comprising the step of inputting a dosing
 amount into a controller and dispensing the dosing amount based upon the
 indication of the first state or second state of the eye.

9. The method claim 1 wherein the first state comprises an eye with a closed eyelid and the second state comprises an eye with an open eyelid.
10. The method of claim 9 wherein the dispensing a liquid via the automated pump with timing based upon the eye with an open eyelid.
11. An apparatus for dispensing liquid into an eye, the apparatus comprising:
an emitter for emitting a light beam towards an eye;
a detector for detecting light reflected off of an open eye while the detector is positioned proximate to the eye;
an automated dispenser for dispensing a liquid towards the eye; and
a processor in logical communication with the detector, the processor functional to coordinate dispensing of the liquid towards the eye based upon a detection of light reflected off of an eye.
12. The apparatus of claim 11 additionally including a digital storage storing executable software operative with the processor to cause the processor to be functional to coordinate dispensing of the liquid towards the eye based upon a detection of light reflected off of an eye.
13. The apparatus of claim 12 additionally comprising a proximity sensor in logical communication with the processor, said proximity sensor communicating a logical signal based upon the sensors proximity to a surface.
14. The apparatus of claim 13 additionally comprising a line of sight fixedly attached to at least the automated dispenser.
15. The apparatus of claim 14 wherein the line of sight comprises a tubular cutout in a body of the apparatus.
16. The apparatus of claim 13 additionally comprising a dispensing nozzle in fluid communication with the automated dispenser and functional to dispense liquid via a spray.

17. The apparatus of claim 13 additionally comprising a dispensing nozzle in fluid communication with the automated dispenser and functional to dispense liquid via a mist.
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18. The apparatus of claim 13 additionally comprising an audible signaling device in electrical communication with the proximity sensor, said audible signaling device capable of emitting an audible signal based upon a signal from the proximity sensor.
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19. The apparatus of claim 13, wherein the processor is functional to receive a signal from the detector indicating an eye is in an open state and generate a logical signal to the dispenser based upon the receipt of the signal indicating an eye is in an open state.
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20. The apparatus of claim 19 wherein the dispenser dispenses a liquid based upon the receipt of the signal indicating an eye is in an open state.
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1. A method of dispensing a liquid in an eye, the method comprising:

- positioning an automated pump proximate to an eye;
- positioning a sensor in a position to detect a first state of an eye and a second state of an eye;
- generating a signal indicating that the eye is in one of said first state and said second state; and
- dispensing a liquid via the automated pump with timing based upon the signal indicating that the eye is in one of said first state and said second state,

wherein the first state comprises an eye with a closed eyelid and the second state comprises an eye with an open eyelid; and

wherein dispensing of a liquid via the automated pump is into the eye with an open eyelid.