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VISION SYSTEM

Revision 1.0

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KEYWORDS

Electromagnetic field, Electrostatic, Optical Heterodyne, Infinity Polygraph, Emerging Technologies, Technology Proliferation, Privacy

ABSTRACT

Either stimulate the visual cortex, the retina, or the surface of the eye to recreate polychromatic images in a recipient.

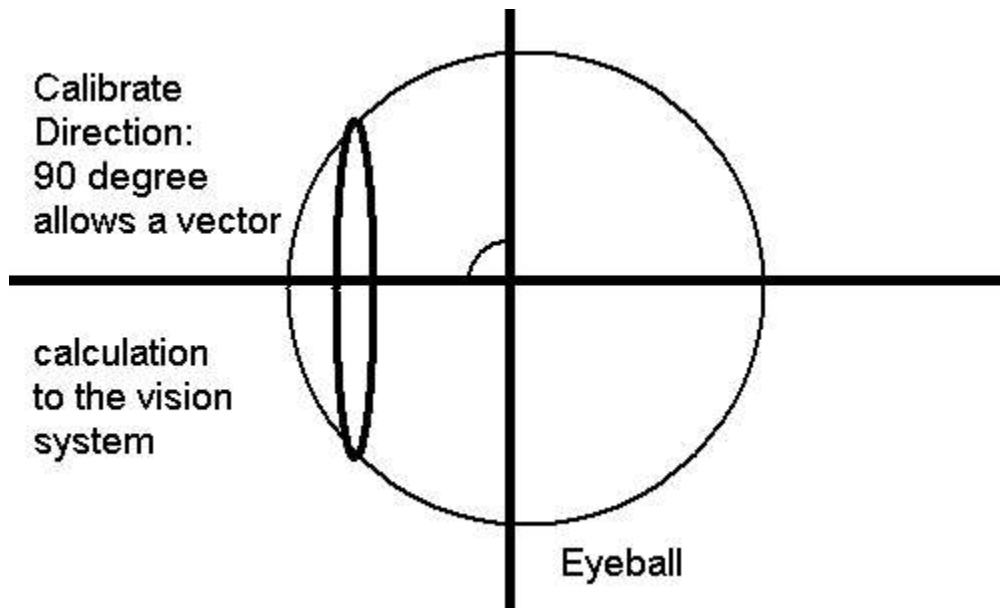
TECHNOLOGY PRINCIPLES

Television, NTSC, HDTV, Interlacing, Vectors,

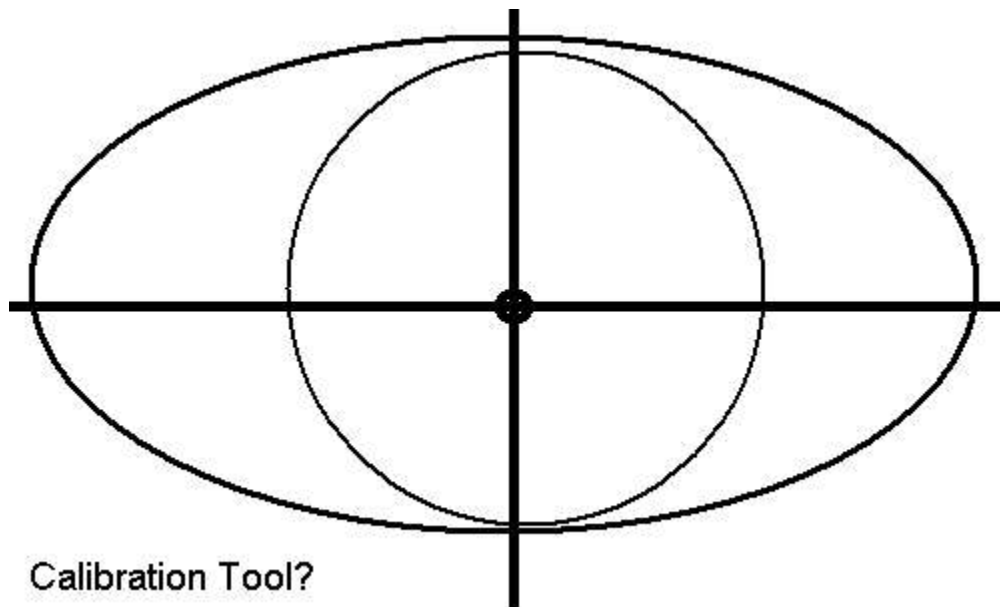
Figures

Blanket the eye with a matrix of dots. Using the same principle as television, transmit an image to the field to recreate a polychromatic image from the digital (or other) source.

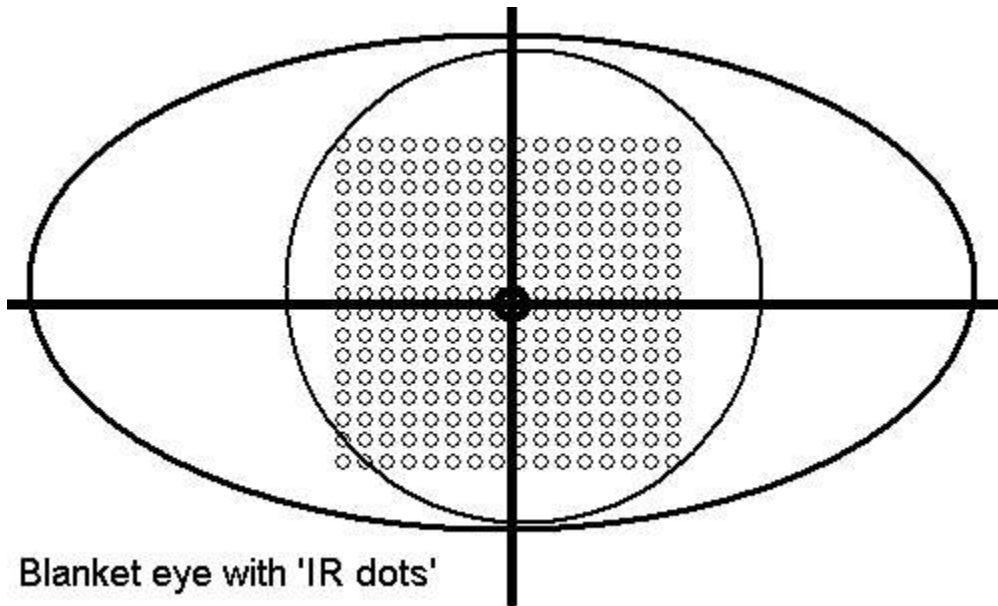
1. Calibrate the direction the eye is looking (independent calibration per eye). From that calibration, you establish a 90-degree angle against which a plane can be constructed using relatively simple available mathematics. As long as you know the 90-degree direction, you can readjust the plane to match accordingly (computational enhancement and correction algorithms will be required).



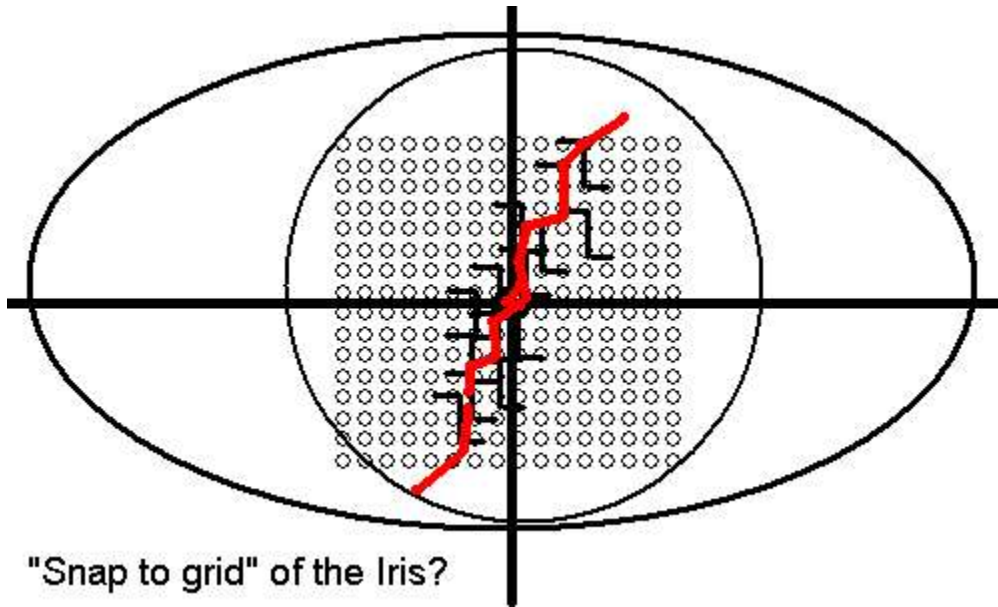
2. Once the direction of the eye is calibrated, many other psycho-acoustic capabilities ensue. Aural stimulation can be made to simulate 3Dimensional sound spaces (like surround sound).



3. Eye process describes a method of tracking the eye's direction.
Visual process describes the method of transmitting a visual image onto the eye after direction is calibrated. The ability to receive images will be correlated with the stillness of the target.



4. Blanket: Once the direction of the eye is calibrated, a 90 degree angle can be established, from which vector mathematics allow the "grid" to be layered onto the eye / eyeball / retina / cortex. This might be achieved through use of sonic (static-electric?) pulses at 1-8 cycles per second, and should provide a low probability of detection (LPD), since they could be matched to parallel the target's heart rate (usually 65bpm or about 1 cycle per second).



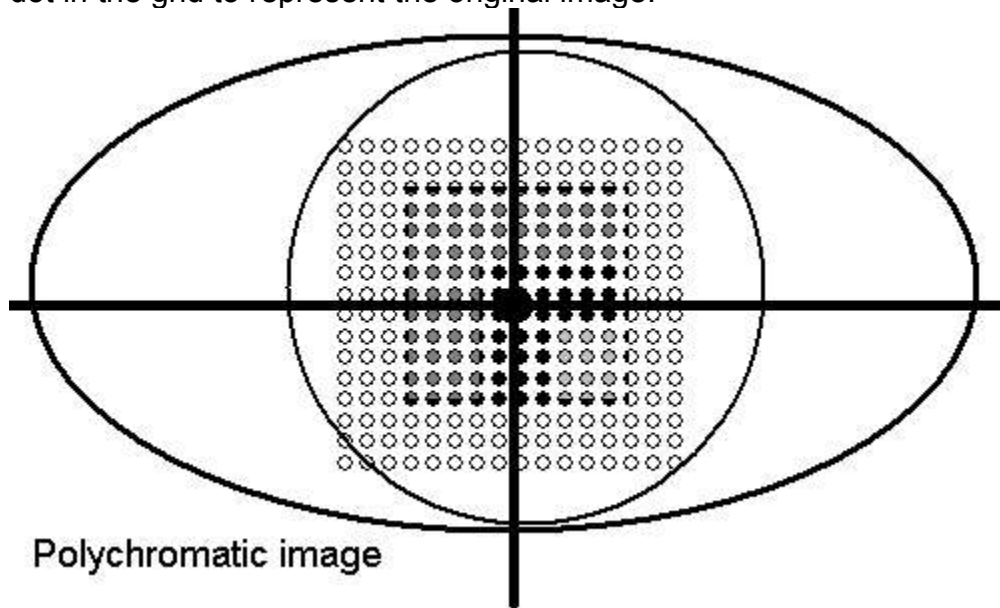
5. Snap: Once the layer is placed (radar system?), more advanced components link the 'dots' of the grid to match the Iris(?). The black lines indicate where dots are individually joined, while the red line indicates where concentrations of connected black lines intersect. This could provide a surface scan of the eyeball / retina, indicating direction. Direction can be used to track eye movements, and the ensuing information could parallel the human body's internal vibrations (frequency).

Vibrations (frequency) can be measured and noise filtered to reduce the frequency information to phonetic pre-speech impulses.

6. Original Image:



7. Transmit to the 'grid' allowing a polychromatic representation. Using the grid as a metaphor for a television like system, recreate the on/off and grayscale (polychromatic) values of each dot in the grid to represent the original image.



Uses

Combined with other IP technologies (speaking, magnets to accelerate or slow blood flow), you can create an advanced form of dream therapy in a target. Narration, with basic pictographic information may significantly assist in interrogation techniques when the target is just falling into or coming out of a state of sleep.

INTRODUCTORY DELIVERABLES

- Develop list of patents and other research (unclassified) projects underway in relation to this area. Tentatively, this will be confined to unclassified technologies in the public domain.
- General diagrams of concept
- Proposed technology demonstration testing and research
- Search Human Rights and Privacy Acts and resources for corollary issues
- Explore Counterproliferation of technologies, countermeasures

FURTHER QUESTIONS

- Does the visible "string" constitute an Achilles' Heel to the Low Probability of Detection (LPD) of the technologies?
- Given an ability to transmit images, is there the concomitant ability to receive images from a specific target?

FUNDING REQUIREMENTS AND TIMEFRAMES:

(Estimated time frame: three months) - Concept development / proof of viability (Est. three months) - required funding \$50,000 (Fifty Thousand dollars)

From time funding released:

0 - 45 days - preparation of contents, initial draft;

45 - 90 days - submission of project with references (peer review or comments would be beneficial, if so, another 45 day cycle to refine content further would be acceptable.)

(Estimated time frame: Eighteen months - Two years) - Proof of technology, Laboratory demonstration - Cost to be determined

(Estimated time frame: Eighteen months - Two years) - Commercial implementation / Production development - Cost to be determined

REFERENCES

TBD