BROADBAND HOLOGRAPHIC PROJECTION DEVICE

HARDWARE, CIRCUITS, AND SENSORS

Holographic image projection for static or dynamic images that can be used for counterfeit technology.

TECHNOLOGY TYPE
- Holography
- Anti-Counterfeit Technology Devices
- Security
- Nanotechnology
- Optical Sensors

STAGE OF DEVELOPMENT
- Prototype developed.
- Ongoing tests to demonstrate efficacy.

IP PROTECTION
- PCT filed.

FUNDING TO DATE
- Sponsored by NASA and the Office of Naval Research.

LEARN MORE
- Reference Number: U-6446

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TECHNOLOGY SUMMARY

Counterfeit goods cost the United States over $600B each year. The anti-counterfeiting industry continuously develops new technologies since market ready solutions do not eliminate all counterfeiting techniques. There is a particular need for stronger methods of anti-counterfeiting in the pharmaceutical, ticketing, and bank note industries.

The proposed technology enables full color holographic image projection across the electromagnetic spectrum for static or dynamic images with high efficiency and almost no absorption losses. The holographic images can operate in transmission or in reflection, making them incredibly difficult to counterfeit.

FEATURES AND BENEFITS
- Increases efficiency by reducing absorption losses.
- Allows customization regarding hologram design (2D or 3D, reflective or transmissive).
- Lowers manufacturing costs.
- Projects across both visual and non-visual light spectra.
- Tunable to multiple security and anti-counterfeit applications.

RECENT PUBLICATIONS

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INVENTOR PROFILE

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