SypherMedia International has patented methods making reverse engineering of semiconductors virtually impossible. With worldwide applications rights and over 30 granted US patents and numerous international patents, we have developed proprietary, trade secret techniques uniquely positioned to implement these designs. SMI offers training and licensing options, enabling your design team to implement SML circuit camouflage technology on your devices. SMI offers a range of courses in hardening silicon IP to reverse engineering, cloning, and tamper attacks.
SypherMedia International has developed technologies specifically for Anti-Tamper, Intellectual Property protection and Cloning Prevention.

SMI’s patented and trade secret protection methods make reverse engineering of semiconductors virtually impossible. Using our designs and techniques, chip makers keep sensitive and strategic aspects of custom designs secret from competitors and counterfeiters providing hardware protection to secure your intellectual property. We provide high tamper resistance from unauthorized modifications to the design by filling the entire chip with circuitry allowing attackers no space in which to insert a Trojan circuit without destroying the underlying function of the ASIC.

• Keeps designs secret from competitors and counterfeiters
• Protects against state-of-the-art circuit extraction attacks
• Applicable to any CMOS process and any digital design
• Extends the security life of your product
• Camouflage of analog IP is also available
• Low-risk technology that has been in practice for over 20 years
• Easily applied to any standard cell design flow
• Minimal impact to area, performance, and power consumption

“The SypherMedia Library™ Circuit Camouflage is the most effective hardware intellectual property protection solution I have encountered.” Michael Strizich, President, Analytical Solutions, Inc.

ABOUT SMI

SMI is dedicated to development of turnkey technology products and services that address today’s security issues. Founded in 2003 by a team of veteran media security and content protection executives and engineers, SMI has quickly emerged as the market leader for global technological security needs for media outlets, consumer electronics companies, financial institutions and others. SMI is a full-service, California-based corporation dedicated to developing turnkey technology products and services that address content and data security.

We offer expertise in the areas of:

Unique and patented technologies for Hardware and Software Intellectual Property protection
- Hardware based Standard Cell and Custom Cell design styles

Security Architecture Systems design and development for Content Delivery Systems
- Network Infrastructures and Secure Data Distribution

BlackBox Programming
- Third Party security chip programming on chip manufacturing lines

SypherMark Always On Watermark System
- Low STB overhead watermark application with no Headend impact

SypherMedia Library™ hides your critical IP
Figure 3 shows how SML can hide ASIC gates among a dense network of camouflage circuitry. Figure 4 shows how SML can hide ASIC metal traces among a dense network of camouflage nets. These techniques increase the effort and the error rate of a reverse engineering attack.

For more information regarding SypherMedia International and our technologies, please contact us at the following:
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