



## Device For Camouflaging An Object From Infrared And Low Light Cameras

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Inventors: Hongrui Jiang, Seyyed Mohammad Moghimi, Guangyun Lin

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### The Invention

A device is provided for camouflaging an object from an infrared detection apparatus. The device includes a cloak positionable between the object and the infrared detection apparatus. The cloak includes a layer of infrared absorptive material including a plurality of silicon nanowires. A flexible substrate has a first surface operatively connected to an inner surface of the layer. The substrate includes a heat dissipation arrangement for dissipating heat generated by the cloak during operation. An array of infrared emitters is operatively connected to a second surface of the substrate. The array of infrared emitters selectively radiates an infrared pattern to disguise the object to the infrared detection apparatus.

### Additional Information

#### For More Information About the Inventors

- [Hongrui Jiang](#)

#### Tech Fields

- [Engineering : Micro & nanotechnologies](#)

For current licensing status, please contact Mark Staudt at [mstaudt@warf.org](mailto:mstaudt@warf.org) or 608-960-9845