

For immediate release:

Diamond Fortress Technologies Issued Patents on ONYX Core Technology

Touchless fingerprinting acquisition and processing on mobile devices now patent-protected

(Birmingham, Alabama, USA, October 19, 2017)

Diamond Fortress Technologies announces today that the United States Patent and Trademark Office has fully issued patents on intellectual property related to DFT's disruptive mobile fingerprint technology, ONYX®. ONYX uses only the rear-facing camera on a smartphone for fingerprint verification, matching and database enrollment.

Patents No. [9,672,406](#) and [9,251,396](#) protect much of the technology used in DFT's ONYX system. **These patents cover touchless fingerprint biometric systems that use a mobile device equipped with a screen and camera, and uses a database for matching.** The system superimposes on the screen an overlay of a finger reticle over a real-time image seen by the camera, captures an image of a fingerprint of a user with the camera, compares the captured image with an authenticated fingerprint image that is stored in the database, and returns a positive result if the compared images match.

According to Chace Hatcher, CEO of Diamond Fortress Technologies, **"Basically, our IP portfolio now gives DFT the unique right to capture a fingerprint with a mobile phone's camera and to match the captured print against an AFIS system or other database.** Using the technology available today, DFT is the only software provider that can perform this operation using just the phone, without the necessity of relying on expensive additional hardware."

Also issued was Patent No. [9,710,691](#) which addresses the method used by mobile touchless fingerprint biometric systems such as ONYX to enhance the finger image, normalize the data contained in the image, and then extract key point data. By enhancing the quality of the fingerprint image through localized normalization and other proprietary techniques, the reliability of the matching operation is significantly enhanced. In addition, using key point comparisons for assessing similarity between the feature information and the template helps to address inconsistencies relating to finger rotation, scale, and translation during capture.

Hatcher adds, "Given these additions to the ever-growing portfolio of intellectual property owned by Diamond Fortress Technologies, our position as the only company able to provide truly secure mobile fingerprint biometrics using only smartphones is solidified for the foreseeable future."

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