

D13 Receives US Patent Expected to be Essential for 5G Cellular and Beyond Line of Site Drone Networks

HIGHLIGHTS

- Affords significant competitive advantage by enhancing the ability of counter-drone systems including MESMER™ to adapt to emerging threats
- Patented technology increases battery life and reduces cost of radio transmitters in phones, cell towers, computers, and drones
- Enables drones to replace cell towers
- Creates additional revenue generation stream via licensing opportunities in the consumer electronics and counter drone markets

COLUMBIA, MD and PERTH, WA – 20 April, 2017 – Counter drone technology company, Department 13 (ASX: D13 or “the Company”), has been issued U.S. Patent No. 9,768,842 titled “Pre-Coding in Multi-User MIMO.”

The patent, licensed exclusively to Department 13 and assigned to Genghiscomm Holdings, the IP holding company of D13’s Chief Science Officer Steve Shattil, covers signal coding that dramatically reduces power consumption and cost in radio transmitters. This significantly increases the battery life of phones, computers, drones and cameras, providing significant IP licensing opportunities for Department 13.

Currently wireless broadband data protocols, from cellular to WiFi, transmit Orthogonal Frequency Division Multiplexing (OFDM) signals, which have a high dynamic range and are not amplified efficiently. Our patented technology spreads data to flatten OFDM signals, which greatly reduces power consumption in the transmitter.

The technology improves the range and efficiency of counter-drone systems that use networks of distributed sensors and will be utilised in future versions of MESMER™. Furthermore, this technology will enable the new generation of cellular networks, “5G”, to replace cell towers with small antennas that are widely distributed throughout the cell.

Jonathan Hunter, Chief Executive Officer of Department 13, said:

“Imagine a fleet of D13 drones equipped as small cell towers that can restore communication services to Houston and Florida immediately after the hurricanes. Instead of weeks or months without service, residents and first responders can have voice and broadband as quickly as it takes to launch the drones. Unlike current cell towers, drones can adapt their flight as the demand for communications on the ground changes. With the anticipated expansion of wireless communications and the overall drone market, this patent provides Department 13 with a unique competitive advantage as well as additional revenue streams through IP licensing.”

Including this patent, Department 13 now holds 16 U.S. issued patents, with 29 pending.

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About Department 13

Department 13 (D13) was founded in Virginia in 2010 by a team of former military operators, scientists and engineers who apply proprietary innovative advanced technology to emerging requirements. D13 is developing cutting-edge software and communication systems that have the potential to transform the networking and communication fields as well as current applications in drone defense, mobile phone IT security and secure enhanced Android phone systems. D13 is engaged with multiple counter UAS projects to provide strategic solutions for civil, military and commercial security requirements. D13's MESMER® Counter Drone System is a unique patented, low power, non-jamming, non-line of sight, non-kinetic drone mitigation solution, enabling an effective and safe method of protecting personnel and infrastructure from dangerous drones. D13 has 16 patents and 29 patent applications in the development of wireless protocol manipulation and communication networking software with applications in drone defense, local area and wide area cellular communications and networking, enhanced data bandwidth for all digital communications, cyber security for mobile devices and sophisticated RF technology applications (radiometrics). For more information about D13, please visit www.department13.com or follow us on Twitter (@D13ASX), LinkedIn and YouTube.