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Ziel Awarded First Ever Cannabis Microbial Treatment Patent

APEX, a radio frequency product offered by Ziel, uses first ever patented radio frequency technology for the treatment of cannabis and other products to reduce microbial pathogens.

San Francisco, CA (April 2, 2020) -- [Ziel](#), creators of proprietary process solutions for the agricultural and cannabis industries, has been awarded the first ever patent (U.S. Patent No 10,517,308) by the U.S. Patent and Trademark Office for processes that include the treatment of cannabis using radio frequency technology for microbial reduction. APEX, offered by Ziel, uses radio frequency technology combined with their patented process solutions to reduce microbial pathogens while retaining product sensory qualities, including potency and terpenes in cannabis. APEX is trusted by some of the largest U.S. cultivators in Colorado, Nevada, and Michigan as well as in countries such as Canada, Portugal and Germany.

“We are honored to be awarded the first ever patent by the U.S. Patent and Trademark Office for processes that include cannabis remediation treatment using radio frequency,” says Arthur de Cordova, Managing Director of Ziel. “Our mission is to provide the most innovative, turnkey solutions for agribusiness and cannabis cultivators so they can focus on growing their business and delivering safe, high-quality products to their customers.”

Radio Frequency is a chemical-free process, and the non-ionizing radiation allows its use in organic operations. APEX equipment operates using radio frequency to reverse the polarity of naturally occurring water molecules in agricultural products, including cannabis flower. Water molecules oscillate 27 million times per second, generating consistent even volumetric heat that kills pathogens based on Ziel’s proprietary processing parameters. APEX products can process 20 lbs of cannabis in less than 15 minutes and can scale up to 2,000 lbs of agricultural products per hour.

Some of the largest cannabis cultivators in the industry have integrated APEX into their operations including Los Sueños Farms in Colorado, the largest outdoor cannabis farm in the U.S., and several of the largest Canadian LPs, including Tilray and The Green Organic Dutchman.

Ziel’s patent has also been allowed by the Canadian Intellectual Property Office which expects to issue the patent in the coming weeks.



To learn more about Ziel or APEX, please visit www.ziel.com.

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About Ziel

Ziel is the industry leader providing next-generation customized, microbial reduction solutions for the agriculture and cannabis industries. The markets in which the company currently operates include tree nuts, seeds, and select fruit, as well as cannabis and hemp. Ziel's products harness radio frequency and microwave technologies to build customized solutions that help customers consistently meet regulatory requirements, preserve product integrity, improve operational processes, and maximize profits. Ziel has a worldwide clientele who commercially process food and cannabis products with installations in the United States, Canada, Australia, Chile, Mexico, Germany, and Portugal. Ziel's corporate headquarters are located in San Francisco. To learn more about Ziel's solutions visit www.ziel.com.