



Development Of Biodegradable Bait Station For Liquid Ant Bait

Tech ID: 25288 / UC Case 2015-050-0

IMAGES



Wikimedia Commons / https://commons.wikimedia.org/wiki/Ant#/media/File:Ant_on_leaf.jpg

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10729121	08/04/2020	2015-050

BRIEF DESCRIPTION

Background:

Current bait station designs and other pest control tools are not very ideal nor advanced – they leak, become excessively hydrated or dehydrated, and need frequent maintenance. The global pest control services market is expected to grow annually at 5.3% and the industry is always looking for unique ways to conquer them.

Brief Description:

UCR Researchers have developed a novel, protected bait station that has controlled liquid bait release. The compact design contains a sugary, insecticide liquid bait that diffuses through an absorbent polymer or gel matrix. Only ants have access to the station and once an ant consumes the bait, the station biodegrades thus eliminating bait station cleanup.

ADVANTAGES

- **Biodegradable** – no cleanup or maintenance necessary

CONTACT

Rekha Chawla
rekha.chawla@ucr.edu
 tel: .

OTHER INFORMATION

KEYWORDS

agriculture, ant bait, ants, bait station, biodegradable, crop protection, eco-friendly, global food, insecticide, liquid bait, pest control, pesticide

CATEGORIZED AS

- **Agriculture & Animal Science**
 - Animal Science
- **Biotechnology**
 - Food
 - Health
- **Materials & Chemicals**
 - Agricultural
 - Pesticides and Insecticides

RELATED CASES

2015-050-0

- ▶ **Target-specific** – lower risk of non-target impact
- ▶ **Protective bait station housing** – reduced environmental contamination
- ▶ **Small, compact** – easily deployed in any location
- ▶ **Water absorbent polymer plug** – absorb liquid bait and delivers bait to target ants
- ▶ **Small amount of liquid** – bait station lifespan is 1-2 weeks

APPLICATIONS

- ▶ Substitute large reservoir bait stations, insecticide sprays & poisons
- ▶ Pest management for urban, agricultural & natural settings
- ▶ Design adoption for other pests

University of California, Riverside

Office of Technology Commercialization

200 University Office Building,

Riverside, CA 92521

otc@ucr.edu

research.ucr.edu/

[Terms of use](#) | [Privacy Notice](#) | © 2015 - 2020, The Regents of the University of California