



LSU AgCenter Office of Intellectual Property

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Battery Powered Air Knife for Beehive Protection

Inventor: Dr. Kristen Healy

Description

Introducing the LSU AgCenter's innovative battery-powered air knife device, designed to protect bee hives by minimizing pesticide droplet deposition. This powerful tool features a rechargeable blower and a precision 3D-printed adaptor connecting to a PVC pipe, creating an effective air curtain that shields hives from pesticide drift up to 2 feet away. Its modular design accommodates multiple hives, making it an essential addition for beekeepers dedicated to the health and safety of their colonies.



Advantages:

- Reduces pesticide exposure to bee hives.
- Portable and battery-powered for versatile use.
- Modular design protects multiple hives with one device.
- Prevents hive overheating common with traditional covers.

Commercial Uses:

- Hobbyist beekeeping communities
- Commercial Beekeeping operations
- Agricultural technology supplies



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