



METHOD AND APPARATUS FOR KILLING PLANTS WITH ELECTRIC CURRENT

CLAIM:

Electric charges are toxic to plants. When properly applied, even hard-to-kill trees can be selectively knocked out by a properly designed electric signal. While the process is not instantaneous (it can take days or weeks to effectively and permanently kill trees through the roots), no chemicals (e.g. herbicides) are used. We know that it's not a heating process because of the low power level used. Based on the tests conducted so far, we believe the toxicity is proportional to accumulated charge.

NOVELTIES:

This process was recently discovered in 2017 as an environmentally-friendly method to kill weeds without introducing chemical compounds into the soil or water.

This technology has a distinct advantage over conventional herbicides because it is highly selective with no potential for collateral damage to adjoining plants, even with the roots intermingled.

FEATURES:

The Tree-Knock-Out (TKO) machine is safe, low power, and can be operated from a household electrical outlet. A solar-powered TKO machine costs slightly more but doesn't require using an extension cord, making it more portable and convenient. The TKO does not rely on dangerous high voltage and does not kill a plant with heat. By design, a TKO device can automatically shut off if it becomes disconnected from the tree or ground connection and it only works on plants, eliminating the risk of electrocuting people or pets.



POTENTIAL APPLICATIONS:

The TKO is completely reusable. It can be used to eradicate hundreds of weedy trees and shrubs. It can be used by homeowners to remove problem trees whose roots have grown under foundations where they are inaccessible. Weed-Knock-Out also kills area weeds, such as hard-to-kill Bermuda grass, by using a conductive screen.

MARKET SIZE:

The global weed control market was \$28.08 billion in 2017 and is expected to reach \$44.90 billion by 2026, growing at a CAGR of 5.35% during the forecast period.

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