Frontal Scalp Cooling Device for Headache Treatment

ID: 2014-062

Executive Statement:

A novel device that treats headaches through targeted cooling of the frontal scalp.

Technology Overview:

This invention by Kim Manwaring at Brigham Young University introduces a groundbreaking approach to migraine relief through a device that applies conformal cooling to the forehead. The device, comprising a cooling bag, recirculating pump, and cooling source, maintains a precise temperature of 57°F (14°C) to desensitize the frontal scalp, offering a non-invasive method to alleviate migraine pain.

Key Advantages:

- Targeted relief from migraine pain without the need for medication
- Precise temperature control for effective treatment
- Non-invasive and easy to use, providing a patient-friendly alternative to current treatments
- Individualized treatment sessions to accommodate patient sensitivity variability

Problems Addressed:

- Dependency on medications for headache relief
- Lack of non-invasive, effective headache treatments
- Difficulty in achieving targeted, controlled pain relief for migraines
- Varied sensitivity to treatment among patients, requiring customizable solutions

Market Applications:

- Home healthcare devices for migraine and headache sufferers
- Clinical settings for targeted migraine treatment
- Portable medical devices for immediate migraine relief
- Complementary therapy in neurology clinics specialized in headache management