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# HEALS Patch: Adaptive Neurostimulation System for Hypertension

Tech ID: 33993 / UC Case 2024-99V-0

## BRIEF DESCRIPTION

A personalized, non-pharmacological neurostimulation system that manages hypertension through real-time adaptive closed-loop control.

## FULL DESCRIPTION

The Hypertension Elimination via Adaptive Loop Stimulation (HEALS) Patch is a wearable medical device designed to reduce blood pressure by using real-time closed-loop neurostimulation. It features integrated sensors that continuously monitor physiological responses and nerve activity, enabling the device to adjust electrical stimulation parameters dynamically based on an individual patient's response profile. This non-invasive system offers personalized management of resistant hypertension by optimizing stimulation to achieve targeted blood pressure reductions without adverse effects on heart rate.

## SUGGESTED USES

- » Non-pharmacological treatment options for patients with resistant hypertension.
- » Wearable personalized medical devices for cardiovascular disease prevention and management.
- » Real-time monitoring and management platforms for chronic health conditions.
- » Innovative therapeutic solutions targeting global hypertension and related health burdens.

## ADVANTAGES

- » Non-invasive alternative to surgical and pharmacological treatments.
- » Personalized therapy driven by real-time closed-loop biofeedback control.
- » Lowers blood pressure without negatively impacting heart rate.
- » Fills an unmet need for effective resistant hypertension treatments.
- » Prevents progression from prehypertension to hypertension through early intervention.

## PATENT STATUS

Country	Type	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO2026080696A1	04/16/2026	2024-99V

Additional Patent Pending

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## OTHER INFORMATION

### CATEGORIZED AS

- » **Biotechnology**
  - » Health
- » **Medical**
  - » Devices
  - » Disease: Cardiovascular and Circulatory System
  - » Rehabilitation
- » **Sensors & Instrumentation**
  - » Medical

### RELATED CASES

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