## Title: Hypotension Leg Cuffs for Wheelchair-Bound Patients

### Invention Summary
Wheelchair bound patients often develop orthostatic hypotension as a result of long-term immobilization in wheelchairs. This condition is a result of lack of movement in the lower legs and is caused by blood pooling in these limbs. These patients are also at significantly greater risk for deep vein thrombosis. This invention is a simple, portable dynamic leg compression apparatus.

### Market Applications
This device could be used regularly or intermittently to promote blood circulation in the lower legs of wheelchair-bound patients.

### Features, Benefits & Advantages
This device could alleviate orthostatic hypotension in many wheelchair-bound patients.

### Intellectual Property & Development Status
This concept-stage invention is the basis for one of the design projects for the Bioengineering 3801/4801 Design Class sequence, and will be further developed in that context. It is available for developmental research support/licensing under either exclusive or non-exclusive terms.

### Related Research
http://uuhsc.utah.edu/pmr/faculty/

### U of U Researcher
Jeffrey Paul Rosenbluth, MD – Department of Physical Medicine and Rehabilitation

### Student Liaison
Robert Hitchcock, PhD – Department of Biomedical Engineering

### Licensing Contact
Name: Frank Norris  
Email: frank@tco.utah.edu  
Title: Licensing Manager  
Direct Phone: 801-581-8057